INTERN GRADUATION NOTIFICATION



Ramalingam, Sivadharshini (Cognizant) 10 O Hari Priya, Makam (Contractor)

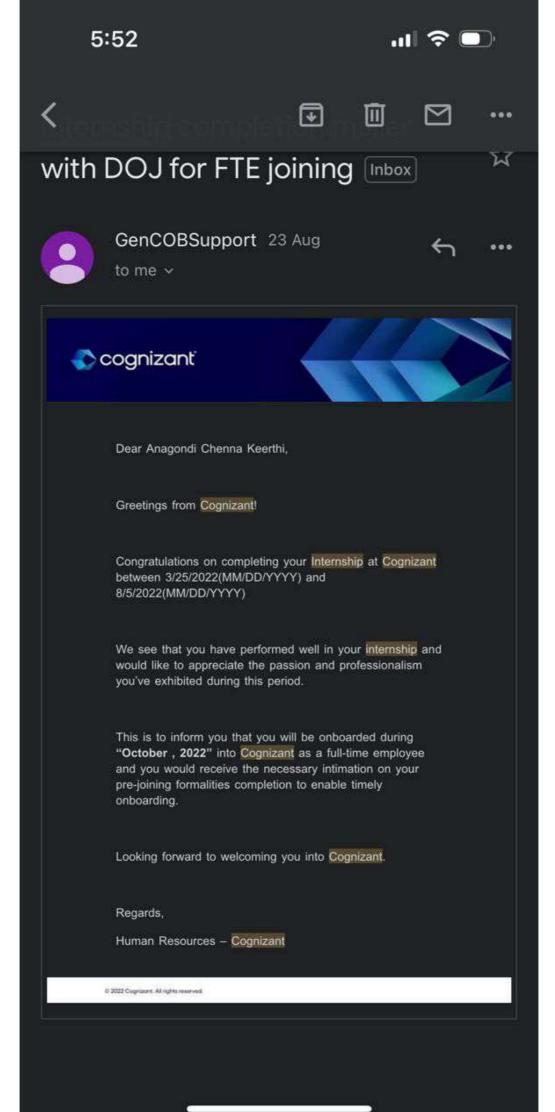


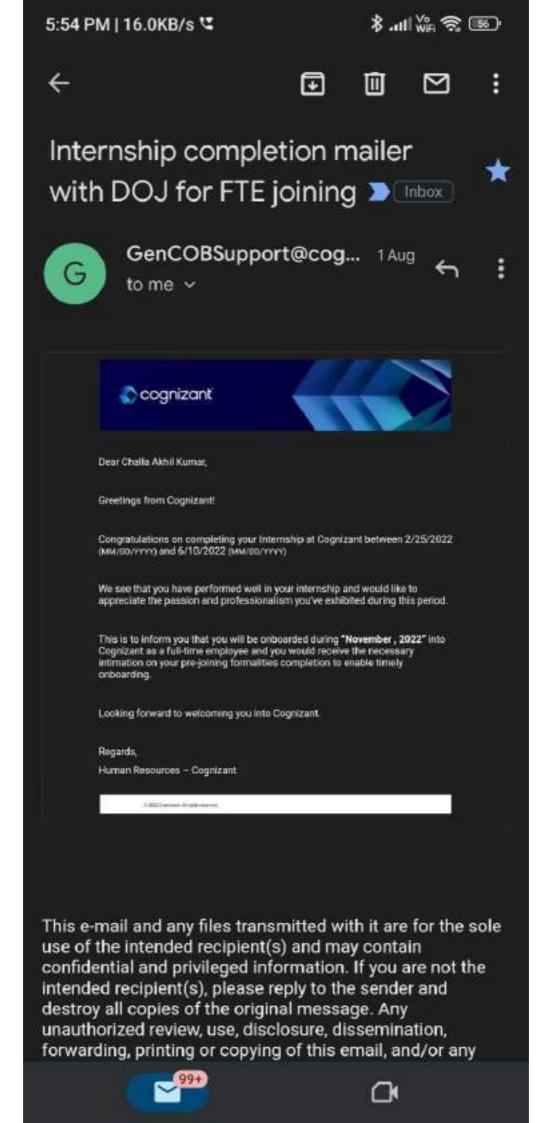
Dear Makam Hari Priya,

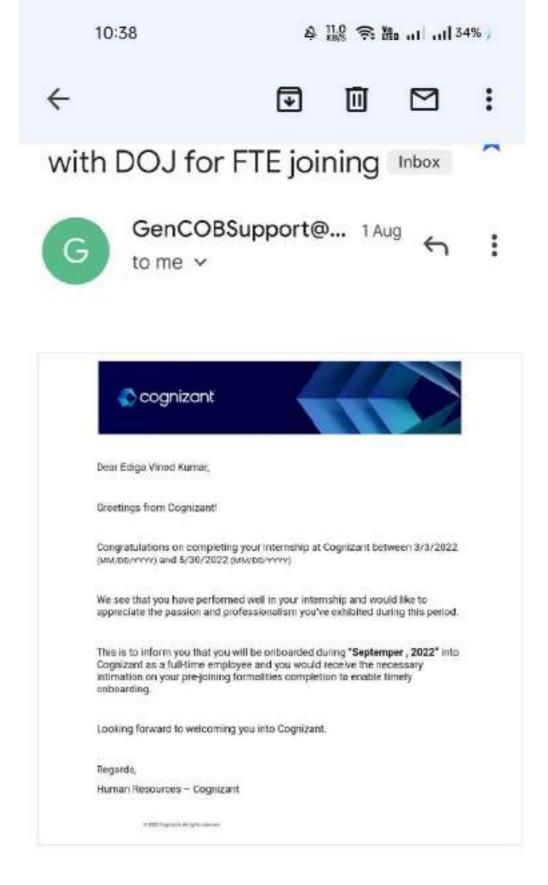
We're glad to inform that you have successfully completed the Internship program.

Below provided is the Overall training summary & performance for reference









This e-mail and any files transmitted with it are for the sole use of the intended recipient(s) and may contain confidential and privileged information. If you are not the intended recipient(s), please reply to the sender and destroy all copies of the original message. Any

 \leq

Internship completion mailer with DOJ for FTE joining Inbox

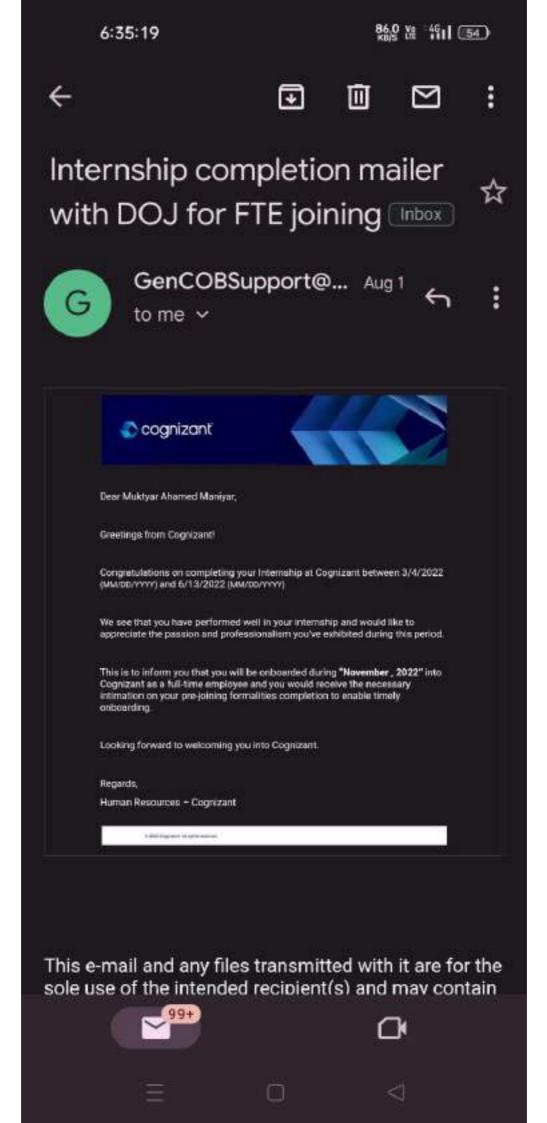


GenCOBSupport@ 23 Aug		:
to me ~		•

Cognizant"
Dear Tejasmitha N,
Greetings from Cognizant!
Congratulations on completing your Internship at Cognizant between 3/21/2022(MM/DD/YYYY) and 7/29/2022(MM/DD/YYYY)
We see that you have performed well in your internship and would like to appreciate the passion and professionalism you've exhibited during this period.
This is to inform you that you will be onboarded during "October, 2022" into Cognizant as a full-time employee and you would receive the necessary intimation on your pre-joining formalities completion to enable timely onboarding.
Looking forward to welcoming you into Cognizant.

Regards,

Human Resources - Cognizant





Dear Vaishnavi U,

Greetings from Cognizant!

Congratulations on completing your Internship at Cognizant between 3/4/2022 (MM/DD/YYYY) and 6/13/2022 (MM/DD/YYYY)

We see that you have performed well in your internship and would like to appreciate the passion and professionalism you've exhibited during this period.

This is to inform you that you will be onboarded during "November, 2022" into Cognizant as a full-time employee and you would receive the necessary intimation on your pre-joining formalities completion to enable timely onboarding.

Looking forward to welcoming you into Cognizant.

Regards,

Human Resources - Cognizant

© 2022 Cognizont: All rights resolvent





Dear G.Sai Venkata Sumanth,

Greetings from Cognizant !

We would like to thank you for your Participation in the Cognizant Internship program 2022.

This is to acknowledge your Internship training completion with us between 2/25/2022 and 05/26/2022.

Hope the training has been effective in upskilling your capabilities.

Wishing you Good luck for your future endeavours.

Regards, Human Resources- Cognizant

17 ZOD Cognitions: All rights reserved.



Dear Pasunoori Bhavana,

Greetings from Cognizant !

We would like to thank you for your participation in the Cognizant Internship Program 2022.

This is to acknowledge your Internship training completion with us between 2/25/2022 and 05/26/2022.

Hope the training has been effective in upskilling your capabilities.

Wishing you Good luck for your future endeavors.

Regards, Human Resources - Cognizant

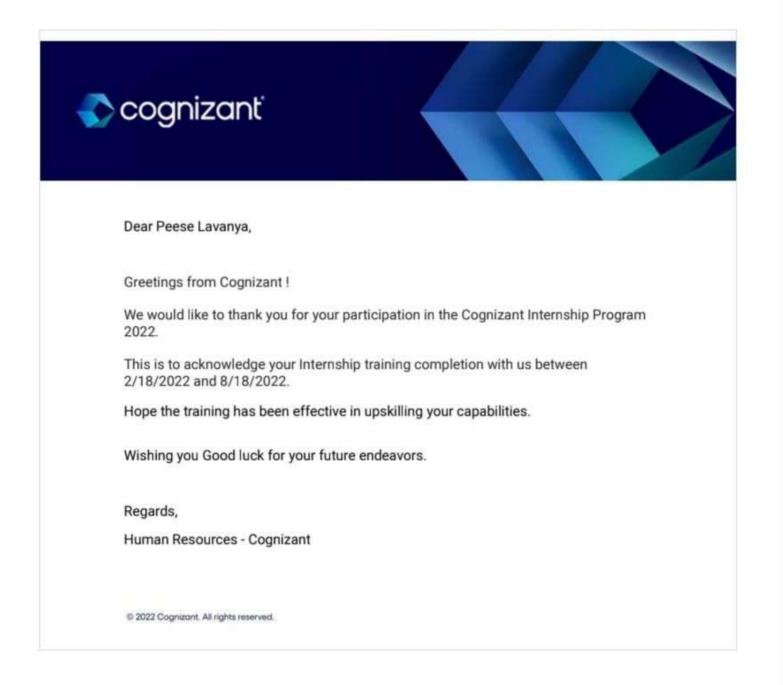
2022 Cognizant. All rights reserved.



Cognizant Internship Participation Letter

1 message

<GenCInternsCSDSupp@cognizant.com> To: peeselavanya@gmail.com Tue, 27 Sep 2022 at 11:00 am



Cognizant Internship Participation Letter Inbox



GenCInternsCSDSupp... 27 Sep to me ~



Dear Shaik Sameera Sulthana,

Greetings from Cognizant !

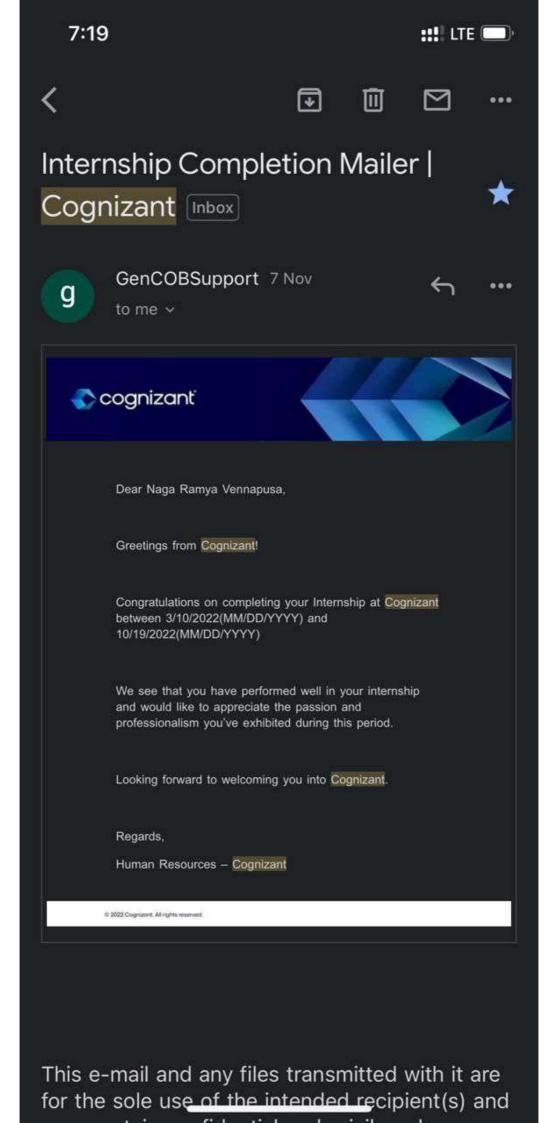
We would like to thank you for your participation in the Cognizant Internship Program 2022.

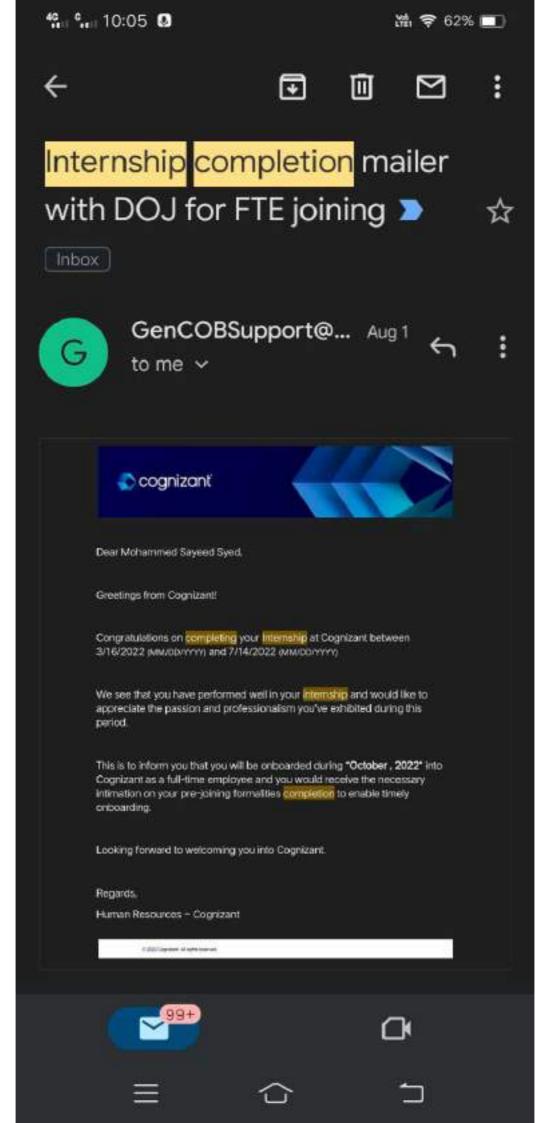
This is to acknowledge your Internship training completion with us between 2/17/2022 and 9/20/2022.

Hope the training has been effective in upskilling your capabilities.

Wishing you Good luck for your future endeavors.

Regards, Human Resources - Cognizant





cognizant

Dear Shaik Khalid Ahmed

Greetings from Cognizant!

We would like to thank you for your participation in the Cognizant Internship Program 2022.

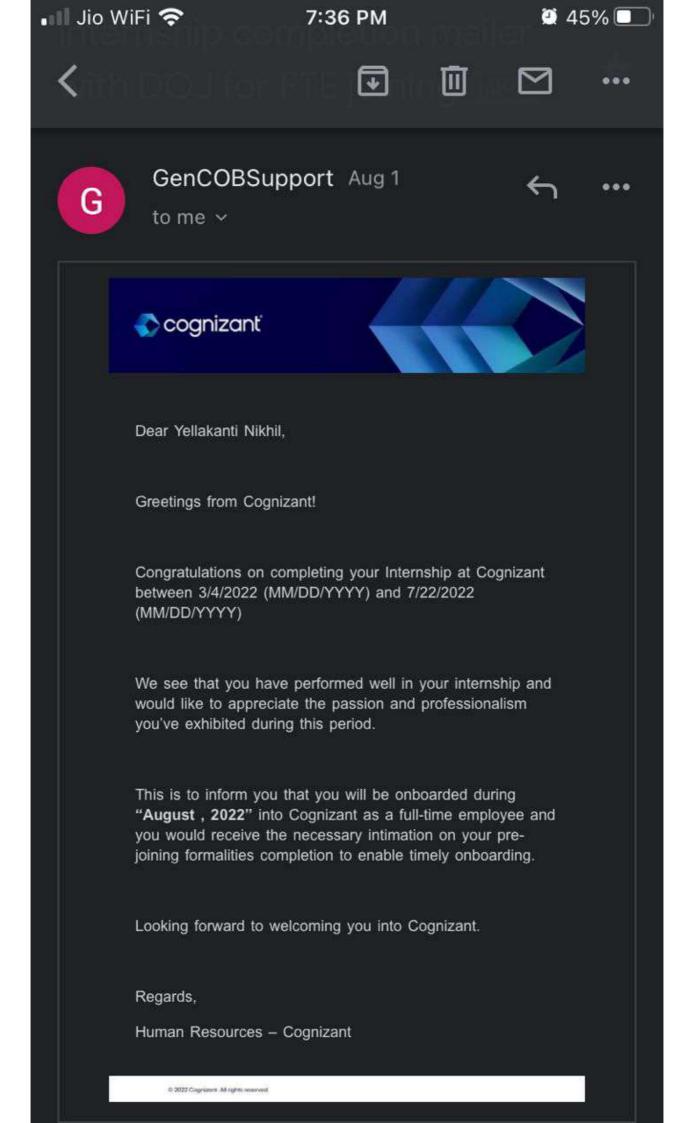
This is to acknowledge you are pursuing Internship training with us between 01-07-22 and 01-07-22. Your overall performance is satisfactory.

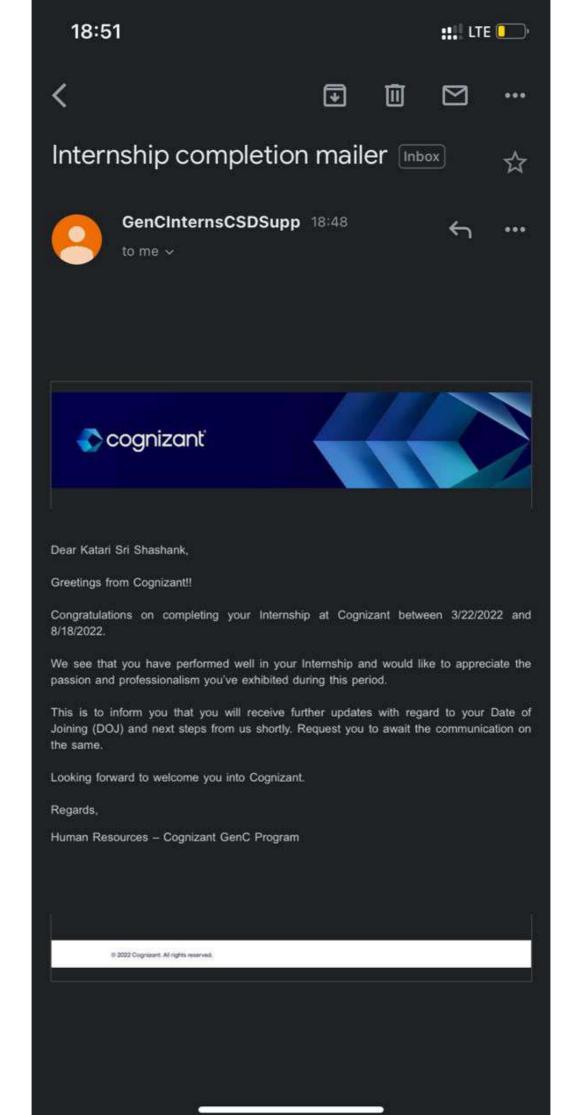
Hope the training has been effective in upskilling your capabilities.

Wishing you Good luck for your future endeavors.

Regards, Human Resources - Cognizant

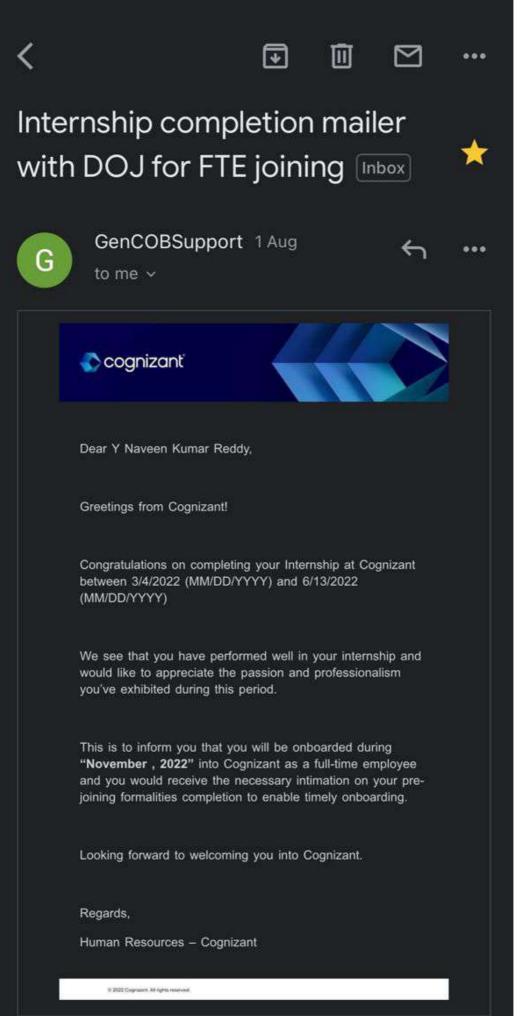
	ernship completion mailer h DOJ for FTE joining Inbox	*
G	GenCOBSupport@cog 1Aug to me ~	•••
	Cognizant'	
	Dear Revanth Reddy Sudireddy,	
	Greetings from Cognizant!	
	Congratulations on completing your Internship at Cognizant between 2/25/2022 (MM/DD/YYYY) and 6/10/2022 (MM/DD/YYYY)	
	We see that you have performed well in your internship and would like to appreciate the passion and professionalism you've exhibited during this period.	
	This is to inform you that you will be onboarded during "Septemper , 2022" into Cognizant as a full-time employee and you would receive the necessary intimation on your pre-joining formalities completion to enable timely onboarding.	
	Looking forward to welcoming you into Cognizant.	
	Regards, Human Resources – Cognizant	
	© 2022 Cognizant. All rights reserved.	

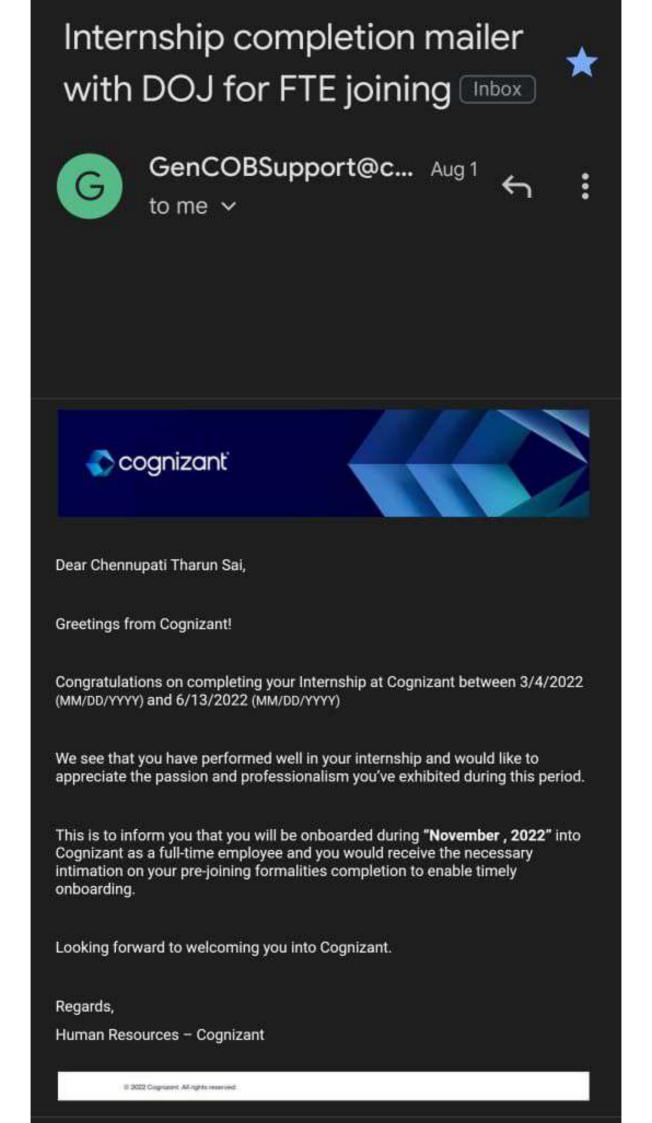






••• LTE 64





INTERNSHIP COMPLETION CERTIFICATE

techigai

96 Jal, 3823

TO WHOMSOFVER IT MAY CONCERN

This is to certify that Sone Merropults in preprioral with Technyal Procee Loward as Transp. Software Engineer down 077Mar. 2022 us sell date

We are happy to original that Sixo Morapelli is paratual at werk, completing accordances to anti-factory, seamaning good conduct with other according at work

For Techigal Prinate Limited

andof

Sationb G

An Internship Report On

Quality Engineering and Assurance with Selenium and Java

At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

Electronics And Communication Engineering Submitted By

Makam Hari Priya (189X1A0471)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous)

KURNOOL

(Accredited by NBA of AICTE and NAAC of UGC with A+ grade)

Affiliated to JNTUA, Anantapuramu (2021-2022)



CERTIFICATE

This is to certify that the internship entitled

Quality Engineering and Assurance with Selenium and Java

is a bona fide record of work carried

By Makam Hari Priya (189N1A0471)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY IN

0 ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL SUPERVISOR

Dr.S.M. Shamsbeer Daula M.Tech, Ph.D.,

Associate Professor,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

HEAD OF THE DEPARTMENT

Dr. S.NAGARAJA RAO M.Tech, Ph.D.,

Professor and Head of the Department,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to our principal Dr. B. Sreenivasa Reddy as well as my Head of Department Dr. S.Nagaraja Rao who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the

Cognizant Technology Solutions for providing this opportunity.

MAKAM HARI PRIYA (189X1A0471)

able of Content	
CHAPTER -1 INTRODUCTION	
1.1 PREAMBLE:	
1.3 SCOPE	
CHAPTER -2 COMPANY PROFILE	
2.1 HISTORY	A
2.2 PRODUCT AND SERVICES	6
2.3 MANAGEMENT:	7
The second design of the second se	7
2.5 CORPORATE SOCIAL RESPONSIBILITY	
24	
CHAPTER - 3	
DOMAIN- QUALITY ENGINEERING AND ASSURANCE	
WITH SELENIUM AND JAVA	
3.1 QUALITY ASSURANCE IN SOFTWARE TESTING :	
3.2 TESTING METHODS	
3.3 TESTING	
A MANUAL TESTING	
3.5 AUTOMATED TESTING	
3.6 TESTING WEBPAGE AND WEBSITE THROUGH SELENIUM	
CHAPTER 4	15
TECHNOLOGIES LEARNT	
CHAPTER - 5	
5.1 MINI PROJECT:	
Case Study : Online Mobile Search	
5.2. HACKATHON PROJECT :	
5.3. MAIN PROJECT :	
CONCLUSION	
REFERENCES	

INTERNSHIP REPORT ON QEA - SELENIUM WITH JAVA

LIST OF FIGURES

	Description	Page no.
Fig no.		05
2.1	Office	09
3.1	Quality Assurance Process	10
3.2	Quality Control	10
3.3	Quality Control Vs Quality Assurance	
5.1	Mini Project	18
-annii	Hackathon Project Structure	19
5.2	Hackathon Project Report	20
5.3		20
5.4	Block Diagram	21
5.5	Main Project	1

INTERNSHIP REPORT ON QEA - SELENIUM WITH JAVA

LIST OF ABBREVIATIONS

Abbreviation	Description	
QA	Quality Assurance	
QTP	Quick Test Professional	
SDLC	Software Development Life Cycle	
SQ	Software Quality	
SQL	Structured Query Language	
UFT	Unified Functional Testing	
CSS	Cascading Style Sheet	
HTML	Hypertext Markup Language	

CHAPTER-1

INTRODUCTION

LI PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An internship report on

QUALITY ENGINEERING WITH SELENIUM AND JAVA

At

Cognizant Technology Solutions



An internship report submitted in partial fulfillment of requirements for the award of the Degree of

BACHALOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

ANAGONDI CHENNA KEERTHI-189X1A0402

Department of Electronics and Communication Engineering

G. PULLA REDDY ENGINEERING COLLEGE(Autonomous)

(Accredited by NBA of AICTE and NAAC of UGC with A+ Grade) Affiliated to JNTUA Anantapur, Anantapuramu Kurnool-518007

2021 - 2022

G. PULLA REDDY ENGINEERING COLLEGE (Autonomous): Kurnool (Accredited by NBA of AICTE & NAAC of UGC with A+ Grade) (Affiliated to JNTUA Anantapur, Anantapuramu)



CERTIFICATE

This is to certify that the major project work entitled

QUALITY ENGINEERING WITH SELENIUM AND JAVA

is a Bonafide record of work carried out by

ANAGONDI CHENNA KEERTHI (189X1A0402)

In fulfilment of the requirements for the award of degree

BACHALOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

INTEX

Dr.R. Sudheer Babu, M Tech, Ph D, Associate Professor, Department of E.C.E, G. Pulla Reddy Engineering College(Autonomous), Kurnool.

HEAD OF DEPARTMENT:

Dr.S.Nagaraja Rao, M.Tech, Ph.D, Professor, Head of the Department, Department of E.C.E, G. Pulla Reddy Engineering College(Autonomous), Kurnool.

DECLARATION

I hereby declare that internship project titled "Quality Engineering with Selenium and Java" submitted for the Department of Electronics and Communication Engineering. This dissertation is our original work and the project has not formed the basis for the award of any degree, associate-ship and fellowship or any other similar titles and no part of it has been published or sent for publication at the time of submission.

A. Chema Keithi

ANAGONDI CHENNA KEERTHI 189X1A0402

TABLE OF CONTENTS

Chapter - 1 Introduction	1
1.1 Preamble	2
1.2 Objective	2
1.3 Scope	2
Chapter - 2 Company Profile	3
2.1 History	4
2.2 Product and Services	
2.3 Management	6
2.4 Finance	6
2.5 Corporate Social Responsibility	7
2.6 Awards	7
Chapter - 3 Domain -Quality Engineering and Assurance with Selenium and Java	8
3.1 Quality Assurance in Software Testing	9
3.2 Testing Methods 12 3.3 Testing Types	11
3.4 Manual Testing	12
3.5 Automated Testing	13
3.6 Testing Webpage and Website through Selenium	14
Chapter - 4 Technologies Learnt	15
Chapter - 5 Projects	17
5.1 Mini Project	18
5.2 Hackathon Project	19
5.3 Main Project	20
Chapter -6 Conclusion	21
References	23

LIST OF FIGURES

Figure Number	Description	Page Number
2.1	Office	4
-3.4	Quality Assurance Process	9
3.2	Quality Control	10
3.3	Quality Control Vs Quality Assurance	11
5.1	Mini Project	18
5.2	Hackathon Project Structure	19
5.3	Hackathon Project Report	20
5.4	Main Project	20

LIST OF ABBREVIATIONS

Abbreviation	Description	
QA	Quality Assurance	
QTP	Quick Test Professional	
SDLC	Software Development Life Cycle	
SQ	Software Quality	
SQL	Structured Query Language	
UFT	Unified Functional Testing	
CSS	Cascading Style Sheet	
HTML	Hypertext Markup Language	

CHAPTER: - 1 INTRODUTION

1.1 PREAMBLE:

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G. Pulla Reddy Engineering College provides glorious opportunity to its students of having an internship within their bachelor program. The three-month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Artificial Intelligence And Analytics At

Cognizant Technology Solutions

Submitted in partial fulfillment of the requirement for the award of degree of

Bachelor of Technology

In

Electronics And Communication Engineering

By

CHALLA AKHIL KUMAR (189X1A0431)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autommunicity)

KURNOOL.

(Accredited by NBA and NAAC of UGC with A+ grade)

Astiliated to INTUA,

Anantapurama(2021-2027)



CERTIFICATE

This is to certify that the internship report titled

Artificial Intelligence And Analytics

is a bonafide record of the work carried out

By

Challa Akhil Kumar (189X1A0431)

In Partial fulfilment of the requirements for the award of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

u.uly-b INTERNAL SUPERVISOR

K. Udaya Kiran, M. Tech

Assistant Professor.

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool,

HEAD OF THE DEPARTMENT

Dr. S.Nagaraja Rao M.Tech, Ph.D.

Professor and Head of the Department

Department of ECE,

G. Pulla Reddy Engineering College.

(Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to our principal Dr. B. Sreenivasa Reddy as well as to my Head of the Department Dr.S.Nagaraja Rao and my internal supervisor K.UDAYA KIRAN, who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons.

I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

CAKhin Kumo

CHALLA AKHIL KUMAR (189X1A0431)

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	1
1.2 Objective	1
1.3 Scope	1
Chapter - 2 Company Profile	
2.1 History	2
2.2 Product and Services	4
2.3 Management	5
2.4 Finance	5
2.5 Corporate Social Responsibility	5
2.6 Awards	5
Chapter - 3 Domain - Artificial Intelligence And Analytics	
3.1 Database	б
3.1.1 Three Level Architecture for a DBMS	9
3.2 Relational Database and Management	11
3.2.1 Keys	12
3.2.2. Normalization	13
3.3 Structured Query Language	16
3.3.1 SQL Statements	16
3.3.2 Subqueries	18
3.3.3 Joins	19
3.4 Data Warehouse	22
3.4.1 Characteristics	22
3.4.2 Star Schema	24
3.4.3 Snow Flake Schema	24
3.4.4 OLTP vs OLAP	25
3.5 Informatica Power Center	27
3.5.1 Components	28
3.5.2 Transformations	32
3.5.3 SCD Type - 1	34
3.5.4 SCD Type - 2	34

Chapter - 4 Technologies Learnt	36
Chapter - 5 Projects	
5.1 Route Management System	37
Chapter – 6 Conclusion	42
6.1 Conclusion	
Chapter – 7 References	43
7.1 References	

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	3
3.1	File vs DBMS	8
3.2	DBMS Overview	9
3.3	ANSI Architecture	10
3.4	Popular Package of RDBMS	11
3.5	Inner Join	20
3.6	Left Join	20
3.7	Right Join	21
3.8	Outer Join	21
3.9	Data Warehouse	23
3.10	Star Schema	24
3.11	Snow Flake Schema	24
3.12	ETL	25
3.13	OLAP vs OLTP	27
3.14	Repository Manager	29
3.15	Informatica Designer	30
3.16	Workflow Monitor	31
3.17	Workflow Manager	32
3.18	SCD Type – 2	35
3.18	Architecture Diagram	38
5.2	Snapshots of results	39

LIST OF TABLES

Table no.	Description	Page no.
3.1	1" Normal Form	1.3
3.2	2nd Normal Form	14
3.3	3 rd Normal Form	15
3.4	SQL STATEMENTS	16
3.5	Software System	38

ARTIFICIAL INTELLIGENCE AND ANALYTICS

CHAPTER 1 INTRODUCTION

Dept. of ECE, GPREC

PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internshipis Cognizant Technology Solutions. It is one of the leading software companies in India.

OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Artificial Intelligence And Analytics At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

01

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

EDIGA VINOD KUMAR (189X1A0438)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous) KURNOOL

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA, Anantapuramu(2021-2022)



CERTIFICATE

Thisistocertifythatthepreliminary internship entitled

Artificial Intelligence And Analytics

is a bona fide record of work carried

By

EDIGA VINOD KUMAR (189X1A0438)

In fulfitment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY

FN

ELECTRONICS AND COMMUNICATION ENGINEERING

1 - Thile Thiles INTERNAL SUPERVISOR

DrJ.S.T.Thilagam, M.Tech Ph.D, Associate Professor, Department of ECE, G. Pulla Reddy Engineering College, (Autonomous), Kurnool.

HEAD OF THE DEPARTMENT

Dr. S.Nagaraja Rao M.Tech, Ph.D, Professor and Head of the Department

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

EDIGA VINOD KUMAR (189X1A0438)

TABLE OF CONTENTS

Chapter – 1 Introduction	
1.1 Preamble	4
1.2 Objective	4
1.3 Scope	4
Chapter - 2 Company Profile	
2.1 History	5
2.2 Product and Services	7
2.3 Management	7
2.4 Finance	7
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter - 3 Domain - Artificial Intelligence And An	alvetics
3.1 Database	9
3.1.1 Three Level Architecture for a DBMS	12
3.2 Relational Database and Management	12
3.2.1 Keys	15
3.2.2. Normalization	16
3.3 Structured Query Language	19
3.3.1 SQL Statements	19
3.3.2 Subqueries	21
3.3.3 Joins	22
3.4 Data Warehouse	25
3.4.1 Characteristics	25
3.4.2 Star Schema	27
3.4.3 Snow Flake Schema	27
3.4.4 OLTP vs OLAP	28
3.5 Informatica Power Center	30
3.5.1 Components	31
3.5.2 Transformations	35
1.5.3 SCD Type - 1	37
.5.4 SCD Type - 2	37

Chapter - 4 Technologies Learnt	39
Chapter - 5 Projects	
5.1 Route Management System	40
Chapter - 6 Conclusion	45
References	46

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	5
3.1	File vs DBMS	11
3.2	DBMS Overview	12
3.3	ANSI Architecture	13
3.4	Popular Package of RDBMS	14
3.5	Inner Join	23
3.6	Left Join	23
3.7	Right Join	24
3.8	Outer Join	24
1.9	Data Warehouse	26
3.10	Star Schema	27
.11	Snow Flake Schema	27
.12	ETL	28
.13	OLAP vs OLTP	30
.14	Repository Manager	32
.15	Informatica Designer	33
.16	Workflow Monitor	34
.17	Workflow Manager	35
18	SCD Type - 2	38
18	Architecture Diagram	41
2	Snapshots of results	42

LIST OF TABLES

Table no.	Description	Page no.
3.1	1" Normal Form	16
3.2	2nd Normal Form	17
3.3	3 rd Normal Form	18
3.4	SQL STATEMENTS	19
3.5	Software System	41

CHAPTER-1 INTRODUCTION

1. PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship Cognizant Technology Solutions. It is one of the leading software companies in India.

2. OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

3. SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report on

Quality Engineering and Assurance with Selenium and Java

at

Cognizant Technology Solutions

in partial fulfilment for the award of the degree of

Bachelor of Technology

In

Electronics and Communication Engineering

Submitted By

N TEJASMITHA (189X1A0453)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLA REDDY ENGINEERING COLLEGE (AUTONOMOUS) KURNOOL (Accredited by NBA and NAAC of UGC with A+ grade) Affiliated to JNTUA, Ananthapuramu.



This is to certify that the preliminary internship entitled

Quality Engineering and Assurance with Selenium and Java

Is a bona fide record of work carried out

By N TEJASMITHA (189X1A0453)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

Internal Su

Sri L L Prasanna Kumar M. Tech, Assistant Professor, Department of E.C.E, GPREC, Kurnool.

Head of the Department

Dr. S. Nagaraja Rao, M. Tech, Ph.D Professor and Head of the Department, Department of E.C.E, GPREC, Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr. S. Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

N TEJASNITHA (189XIA0453)

INTERNSHIP REPORT ON OF A - SELENIUM WITH JAVA

TABLE OF CONTENTS

1.2 Objective 1.3 Scope Chapter - 2 Company Profile	6 6
1.3 Scope Chapter - 2 Company Profile 2.1 History 2.2 Product and Services 2.3 Management 2.4 Finance 2.5 Corporate Social Responsibility 2.6 Awards Chapter - 3 Domain -Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing	
 Chapter - 2 Company Profile 2.1 History 2.2 Product and Services 2.3 Management 2.4 Finance 2.5 Corporate Social Responsibility 2.6 Awards Chapter - 3 Domain - Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing 	
 2.1 History 2.2 Product and Services 2.3 Management 2.4 Finance 2.5 Corporate Social Responsibility 2.6 Awards Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing 	5
 2.2 Product and Services 2.3 Management 2.4 Finance 2.5 Corporate Social Responsibility 2.6 Awards Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing 	5
 2.3 Management 2.4 Finance 2.5 Corporate Social Responsibility 2.6 Awards Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing 	
 2.4 Finance 2.5 Corporate Social Responsibility 2.6 Awards Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing 	7
 2.5 Corporate Social Responsibility 2.6 Awards Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing 	7
 2.6 Awards Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing 	7
Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java 3.1 Quality Assurance in Software Testing	7
Selenium and Java 3.1 Quality Assurance in Software Testing	8
3.1 Quality Assurance in Software Testing	
3.2 Testing Methods	9
	12
3.3 Testing Types	12
3.4 Manual Testing	13
3.5 Automated Testing	14
3.6 Testing Webpage and Website through Selenium	14
Chapter – 4 Technologies Learnt	16
Chapter - 5 Projects	
5.1 Mini Project	18
5.2 Hackathon Project	19
5.3 Main Project	22
Chapter -6 Conclusion	25
References	

INTERNSHIP REPORT ON OEA - SELENIUM WITH JAVA

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	05
3.1	Quality Assurance Process	09
3.2	Quality Control	10
3.3	Quality Control Vs Quality Assurance	11
5.1	Mini Project Structure	19
5.2	Hackathon Project Structure	20
5.3	Hackathon Project Report	21
5.4	Main Project Structure	23
5.5	Main Project Report	24

LIST OF ABBREVIATIONS

Abbreviation	Description
QA	Quality Assurance
OTP	Quick Test Professional
SDLC	Software Development Life Cycle
SQ	Software Quality
SQL	Structured Query Language
UFT	Unified Functional Testing
CSS	Cascading Style Sheet
HTML	Hypertext Markup Language

CHAPTER-I INTRODUCTION

1.1 PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to its' students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Artificial Intelligence And Analytics At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

10

Electronics And Communication Engineering

Submitted By

M. MUKTYAR AHAMED (189X1A0494)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Automonious)

KURNOOL.

(Accredited by NBA and NAAC of UGC with A+ grade) Affiliated to JNTUA, Anantaporamu



CERTIFICATE

This is to certify that the preliminary internship entitled

Artificial Intelligence And Analytics

is a bonafide record of work carried

By

M. MUKTYAR AHAMED (189X1A0494)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL SUPERVISOR

Dr.G.AMJAD KHAN, M.Tech, Ph.D.,

Associate Professor,

Department of ECE,

G. Pulla Reddy Engineering College,

Kurnool-518007.

HEAD OF WHE DEPARTMENT

Dr. S.NAGARAJA RAO, M.Tech, Ph.D, Professor and Head of the Department Department of ECE, G. Pulla Reddy Engineering College, Kurnool-518007.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

M. MUKTYAR AHAMED (189X1A0494)

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	4
1.2 Objective	4
1.3 Scope	4
Chapter - 2 Company Profile	
2.1 History	5
2.2 Product and Services	7
2.3 Management	7
2.4 Finance	7
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter - 3 Domain - Artificial Intelligence And Analystics	
3.1 Database	9
3.1.1 Three Level Architecture for a DBMS	12
3.2 Relational Database and Management	12
3.2.1 Keys	15
3.2.2. Normalization	16
3.3 Structured Query Language	19
3.3.1 SQL Statements	19
3.3.2 Subqueries	21
3.3.3 Joins	22
3.4 Data Warehouse	25
3.4.1 Characteristics	25
3.4.2 Star Schema	27
3.4.3 Snow Flake Schema	27
3.4.4 OLTP vs OLAP	28
3.5 Informatica Power Center	3(
3.5.1 Components	3
3.5.2 Transformations	3
3.5.3 SCD Type - 1	3
3.5.4 SCD Type - 2	3

Chapter - 4 Technologies Learnt	39
Chapter - 5 Projects	
5.1 Content Management System	40
Chapter - 6 Conclusion	45
References	46

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	5
3.1	File vs DBMS	11
3.2	DBMS Overview	12
3.3	ANSI Architecture	13
3.4	Popular Package of RDBMS	14
3.5	Inner Join	23
3.6	Left Join	23
3.7	Right Join	24
3.8	Outer Join	24
3.9	Data Warehouse	26
3.10	Star Schema	27
3.11	Snow Flake Schema	2.7
3.12	ETL	28
3.13	OLAP vs OLTP	30
3.14	Repository Manager	32
3.15	Informatica Designer	33
3.16	Workflow Monitor	34
3.17	Workflow Manager	35
3.18	SCD Type - 2	38
3.18	Architecture Diagram	41
5.2	Snapshots of results	42

3

LIST OF TABLES

Table no.	Description	Page no.
3.1	1" Normal Form	16
3.2	2nd Normal Form	17
3.3	3 rd Normal Form	18
3.4	SQL STATEMENTS	19
3.5	Software System	41

DEPT OF ECE, GPREC

Page 4

CHAPTER-1 INTRODUCTION

1.1 PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report

on

ARTIFICIAL INTELLIGENCE AND ANALYTICS at

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

of

Bachelor of Technology

in.

Electronics and Communication Engineering

Submitted By

U VAISHNAVI (189X1A04A7)



Department of Electronics and Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous) KURNOOL

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA,

Anantapuramu(2021-2022)



CERTIFICATE

This is to certify that the internship entitled

ARTIFICIAL INTELLIGENCE AND ANALYTICS

is a bonafide record of work carried out

by

U VAISHNAVI (189X1A04A7)

In fulfillment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY

IN.

ELECTRONICS AND COMMUNICATION ENGINEERING

Dr. M. V.R. VITTAL, M. Tech., Ph.D.

Associate Professor.

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

HEAD OF THE DEPARTMENT

Dr. S.NAGARAJA RAO M.Tech, Ph.D, MISTE.

Professor and Head of the Department,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

DECLARATION

I would like to express my special thanks to my Head of the Department Dr. S. Nagaraja Rao garu as well as our principal Dr. B. Sreenivasa Reddy garu who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons.

I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

U VAISHNAVI (189X1A04A7)

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	5
1.2 Objective	5
1.3 Scope	2
Chapter – 2 Company Profile	100
2.1 History	6
2.2 Product and Services	8
2.3 Management	8
2.4 Finance	9
2.5 Corporate Social Responsibility	9
2.6 Awards	9
Chapter - 3 Domain - Artificial Intelligence And Analytics	
	12
3.1 Database	13
3.1.1 Three Level Architecture for a DBMS	15
3.2 Relational Database and Management	16
3.2.1 Keys	18
3.2.2. Normalization	21
3.3 Structured Query Language	21
3.3.1 SQL Statements	23
3.3.2 Subqueries	25
3,3.3 Joins	27
3.4 Data Warehouse	27
3.4.1 Characteristics	29
3.4.2 Star Schema	
3.4.3 Snow Flake Schema	29
3.4.4 OLTP Vs OLAP	30
3.5 Informatica Power Center	33
3.5.1 Components	34
3.5.2 Transformations	39
3.5.3 SCD Type - 1	41
3.5.4 SCD Type - 2	41

ARTIFICIAL INTELLIGENCE AND ANALYTICS.

Chapter - 4 Technologies Learnt	43
Chapter - 5 Projects	44
5.1 Order Management System	44
Chapter - 6 Conclusion	52
References	53

ARTIFICIAL INTELLIGENCE AND ANALYTICS

LIST OF FIGURES

Fig no. Description		Page no.	
2.1	Office	6	
3.1	File vs DBMS	12	
3.2	DBMS Overview	13	
3.3	ANSI Architecture	-14	
3.4	Popular Package of RDBMS	15	
3.5	Inner Join	25	
3.6	Left Join	25	
3.7	Right Join	26	
3.8	Outer Join	26	
3.9	Data Warehouse	28	
3.10	Star Schema	29	
3.11	Snow Flake Schema	29	
112	ETL	30	
3.13	OLAP Vs OLTP	32	
.14	Repository Manager	35	
.15	Informatica Designer	36	
.16	Workflow Monitor	37	
17	Workflow Manager	38	
18	SCD Type - 2	42	
18	Architecture Diagram	46	
2	Snapshots of results	47	

ARTIFICIAL INTELLIGENCE AND ANALYTICS

LIST OF TABLES

Table no.	Description	Page no.
3.1	1 ^{at} Normal Form	18
3.2	2nd Normal Form	1.9
3.3	3 ^{nf} Normal Form	20
3.4	SQL STATEMENTS	21
3.5	Software System	46

CHAPTER-1 INTRODUCTION

LI PREAMBLE:

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G. Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

L3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Artificial Intelligence And Analytics At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

G.SAI VENKATA SUMANTH (189X1A04B5)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous)

KURNOOL.

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to INTUA,

Anantapuramu(2021-2022)



CERTIFICATE

This is to certify that the preliminary internship entitled

Artificial Intelligence And Analytics

is a bonafide record of work carried

By

G.SAI VENKATA SUMANTH (189X1A04B5)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL SUPERVISOR

Smt.T.Swathi, M.Tech, (Ph.D),

Assistant Professor,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

HEAD OF THE DEPARTMENT Dr. S.NAGARAJA 'RAO, M. Tech, Ph.D., Professor and Head of the Department Department of ECE, G. Pulla Reddy Engineering College, (Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

G. SAL VENKATA SUMANTH (189X1A04B5)

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	4
1.2 Objective	4
1.3 Scope	4
Chapter - 2 Company Profile	
2.1 History	5
2.2 Product and Services	7
2.3 Management	7
2.4 Finance	7
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter - 3 Domain - Artificial Intelligence And Analystics	
3.1 Database	9
3.1.1 Three Level Architecture for a DBMS	12
3.2 Relational Database and Management	12
3.2.1 Keys	15
3.2.2. Normalization	16
3.3 Structured Query Language	19
3.3.1 SQL Statements	19
3.3.2 Subqueries	21
3.3.3 Joins	22
3.4 Data Warehouse	25
3.4.1 Characteristics	25
3.4.2 Star Schema	27
3.4.3 Snow Flake Schema	27
3.4.4 OLTP vs OLAP	28
3.5 Informatica Power Center	30
3.5.1 Components	31
3.5.2 Transformations	35
3.5.3 SCD Type - 1	37
3.5.4 SCD Type - 2	37

7 7

Chapter - 4 Technologies Learnt	39
Chapter - 5 Projects	
5.1 Route Management System	40
Chapter - 6 Conclusion	45
References	46

LIST OF FIGURES

Fig no.	Description	Page no.
2.1 3.1 3.2 3.3 3.4	Office	
3.1	File vs DBMS	11
3.2	DBMS Overview	12
3.3	ANSI Architecture	
3.4	Popular Package of RDBMS	14
3.5	Inner Join	23
1.6	Left Join	23
3.7	Right Join	24
1.8	Outer Join	24
1.9	Data Warehouse	26
1.10	Star Schema	27
11	Snow Flake Schema	27
12	ETL	28
.13	OLAP vs OLTP	30
14	Repository Manager	32
.15	Informatica Designer	33
16	Workflow Monitor	34
17	Workflow Manager	35
18	SCD Type - 2	38
18	Architecture Diagram	41
2	Snapshots of results	42

LIST OF TABLES

Table no.	Description	Page no.
11	1 st Normal Form	16
3.2	2nd Normal Form	17
33	3 rd Normal Form	18
34	SQL STATEMENTS	
3.5	Software System	41

CHAPTER-1 INTRODUCTION

1.1 PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report

on

QUALITY ENGINEERING AND ASSURANCE WITH SELENIUM AND JAVA



An internship report submitted in partial fulfillment of requirements for the Award of the Degree of

BACHELOR OF TECHNOLOGY

IN

FLECTRONICS AND COMMUNICATION ENGINEERING

By

PASUNOORI BHAVANA (189X1A04C7)

Department of Electronics and Communication Engineering

G. PULLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Accredited by NBA and NAAC of UGC with A+ grade)

(AFFILIATED TO INTUA, ANANTHAPURAMU)

KURNOOL - 518007

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous)

KURNODI.

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA, Anantapuranu

(2021-2022)



CERTIFICATE

This is to certify that the preliminary internship project work entitled

Quality Engineering and Assurance with Selenium and Java

is a bonafide record of work carried

By

PASUNOORI BHAVANA (189X1A04C7)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL SUPERVISOR

Smt A, PARVATHI, M.TECH,

Associate Professor,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

HEAD OF THA DEPART

Dr. S. NAGARAJA RAO, M. Tech, Ph.D., MISTE.

Professor and Head of the Department,

Department of ECE,

G. Pulla Reddy Engineering College

(Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

> P. BLAUALON BHAVANA PASUNOORI (189X1A04C7)

INTERNSHIP REPORT ON OFA - SELENBLM WITH JAVA

TABLE OF CONTENTS

Chapter - 1 Introduction 1.1 Preamble	4
1.2 Objective	
1.3 Scope	
Chapter - 2 Company Profile	5
2.1 History	5
2.2 Product and Services	.7
2.3 Management	
2.4 Finance	
2.5 Corporate Social Responsibility	
2.6 Awards	
Chapter - 3 Domain -Quality Engineering and Assurance with Selenium and 3.1 Quality Assurance in Software Testing	arat ba 9
3.2 Testing Methods	12
3.3 Testing Types	13
3.4 Manual Testing	14
3.5 Automated Testing	14
3.6 Testing Webpage and Website through Selenium	15
Chapter - 4 Technologies Learnt	17
Chapter - 5 Projects	19
5.1 Mini Project	19
5.2 Hackathon Project	21
5.3 Main Project	23
Chapter -6 Conclusion	24
References	25

INTERNSHIP REPORT ON OF A SELENILM WITH JAVA

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	.05
3.1	Quality Assurance Process	09
3.2	Quality Control	10
3.3	Quality Control Vs Quality Assurance	U
5.1	Mini Project	18
5.2	Hackathon Project Structure	19
5.3	Hackathon Project Report	20
5,4	Block Diagram	20
5.5	Main Project	21

INTERNSHIP REPORT ON OF A - SET UNIUM WITH JAVA

LIST OF ABBREVIATIONS

Abbreviation	Description
QA	Quality Assurance
QTP	Quick Test Professional
SDLC	Software Development Life Cycle
SQ	Software Quality
SQL.	Structured Query Language
UFT	Unified Functional Testing
CSS	Cascading Style Sheet
HTML.	Hypertext Markup Language

INTERNSHIP REPORT ON OFA - SELENIUM WITH JAVA

CHAPTER-1

INTRODUCTION

1.I PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Quality Engineering and Assurance with Selenium and Java

At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

Peese Lavanya (189X1A04C8)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

Although to JNTUA, Ananthaparama



CERTIFICATE

This is to certify that the preliminary internship entitled

Quality Engineering and Assurance with Selenium and Java

is a bona fide record of work carried

By P.LAVANYA (189X1A04C8)

In fulfillment of the requirements for the award of degree

IDACHELOR OF TECHNOLOGY IN LECTRONICS AND COMMUNICATION ENGINEERING

Head of the Department

Dr. S. Nagaranu Rao, M. Tech, Ph.D. Professor and Head of the Department, Department of E.C.E, GPREC, Kurnool. Internal Supervisor

Dr. J.S.T. Thilagam M. Tech, Ph.D Associate Professor, Department of E.C.E, GPREC, Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Hend of the Department Dr.S. Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

PEESE LAVANYA (189XIA04D4)

INTERNSHIP REPORT ON OFA - SELENIUM WITH JAVA

TABLE OF CONTENTS	
-------------------	--

Chapter -1 Introduction	
1.1 Preamble	4
1.2 Objective	4
1.3 Scope	- 4
Chapter - 2 Company Profile	
2.1 History	5
2.2 Product and Services	7
2.3 Management	7
2.4 Finance	7
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter - 3 Domain -Quality Engineering and Assurance with	
Selenium and Java	
3.1 Quality Assurance in Software Testing	9
3.2 Testing Methods	12
3.3 Testing Types	12
3.4 Manual Testing	13
3.5 Automated Testing	14
3.6 Testing Webpage and Website through Selenium	14
Chapter - 4 Technologies Learnt	16
Chapter - 5 Projects	
5.1 Mini Project	17
5.2 Hackathon Project	19
5.3 Main Project	21
Chapter –6 Conclusion	22
References	23

INTERNSHIP REPORT ON OFA - SELENIUM WITH JAVA.

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	05
3.1	Quality Assurance Process	09
3.2	Quality Control	10
3.3	Quality Control Vs Quality Assurance	11
5.1	Mini Project Structure	18
5.2	Hackathon Project Report	19
5.3	Hackathon Project Structure	20
5.4	Main Project Structure	20
5.5	Main Project Report	21

INTERNSHIP REPORT ON OFA - SELENIUM WITH JAVA

LIST OF ABBREVIATIONS

Description

Abbreviation

Quality Assurance
Quick Test Professional
Software Development Life Cycle
Software Quality
Structured Query Language
Unified Functional Testing
Cascading Style Sheet
Hypertext Markup Language

CHAPTER-1 INTRODUCTION

LI PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Quality Engineering and Assurance with Selenium and Java

At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

Shaik Sameera Sulthana (189X1A04D4)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous)

KURNOOL.

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA, Anantapuramu(2021-2022)



CERTIFICATE

This is to certify that the preliminary internship entitled

Quality Engineering and Assurance with Selenium and Java

is a bona fide record of work carried

By

SHAIK SAMEERA SULTHANA (189X1A04D4)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL SUPERVISOR

Dr. S.NAGARAJA RAO M.Tech, Ph.D.

Professor and Head of the Department,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

HEAD OF THE DEPARTMENT

Dr. S.NAGARAJA RAO M. Tech, Ph.D.

Professor and Head of the Department,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

SHAIK SAMEERA SULTHANA (189XIA04D4)

INTERNSHIP REPORT ON OFA - SELENIUM WITH JAVA

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	- 4
1.2 Objective	4
1.3 Scope	: 4
Chapter - 2 Company Profile	
2.1 History	5
2.2 Product and Services	7
2.3 Management	7
2.4 Finance	7
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java	
3.1 Quality Assurance in Software Testing	9
3.2 Testing Methods	12
3.3 Testing Types	12
3.4 Manual Testing	13
3.5 Automated Testing	14
3.6 Testing Webpage and Website through Selenium	15
Chapter - 4 Technologies Learnt	16
Chapter - 5 Projects	
5.1 Mini Project	17
5.2 Hackathon Project	19
5.3 Main Project	21
Chapter –6 Conclusion	27
References	23

INTERNSHIP REPORT ON OF A SELENIUM WITH JAVA.

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	05
3.1	Quality Assurance Process	09
3.2	Quality Control	10
3.3	Quality Control Vs Quality Assurance	11
5.1	Mini Project	18
5.2	Hackathon Project Structure	19
5.3	Hackathon Project Report	20
5.4	Block Diagram	20
5.5	Main Project	21

INTERNSHIP REPORT ON OFA - SELENIUM WITH JAVA.

LIST OF ABBREVIATIONS

Description
Quality Assurance
Quick Test Professional
Software Development Life Cycle
Software Quality
Structured Query Language
Unified Functional Testing
Cascading Style Sheet
Hypertext Markup Language

CHAPTER-1 INTRODUCTION

LI PREAMBLE I

Internahip is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G-Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Cognizant Digital Engineering Java with Full Stack Engineering

At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

Vennapusa Naga Ramya (189X1A04E2)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDA ENGINEERING COLLEGE (Autonomous)

KURNOOL

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA.

Anantapuramu(2021-2022)



CERTIFICATE

This isto certify that thepreliminary internship entitled

Cognizant Digital Engineering Java Full Stack Engineering

rs a bona fide record of work carried

By

VENNAPUSA NAGA RAMYA (189X1A04E2)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION F

INTERNAL SUPERVISOR

Dr. S.NAGARAJA RAOM. Tech, Ph.D.

Professor and Head of the Department,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

HEAD OF THE DEPARTMENT

MGINEERING

Dr. S.NAGARAJARAO M. Tech, Ph.D

Professor and Head of the Department,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

V. Kegafanyg VENNAPUSA NAGA BANYA (189X1A04E2)

COGNIZANT INTERNSHIP REPORT

			-	Aug. 10. 10. 10.	 100000-000
-		 C D	1.1	100	TS

1.42
2
2
1.0
3
3
6
6
6
6
7
8
9
9
10
10
13
30
31

CHAPTER-1 INTRODUCTION

1. PREAMBLE |

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship Cognizant Technology Solutions. It is one of the leading software companies in India.

2. OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

3. SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth. An Internship Report On

Application Development and Maintenance At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

In Electronics And Communication Engineering

Submitted By

MOHAMMED SAYEED S (189X1A04E3)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLARIDDY ENGINEERING COLLEGE (Antonomous) KURNOOL

(Accredited by NBA and NAAC of UGC with A+ grade) Affiliated to DETUA, Anantaparama(2021-2022)



CERTIFICATE

This is to certify that the preliminary internship entitled

Application Development and Maintenance

is a bonafide record of work carried

By

MOHAMMED SAYEED S (189X1A04E3)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY

IN.

ELECTRONICS AND COMMUNICATION ENGINEERING

Internal Supervise

B. Siva Reddy, MTech, (Ph.D)
Professor,
Department of E.C.E,
G. Pulla Reddy Engineering college,
Kurnool.

Head of the Department

Dr. S. Nagabaja Rao, M. Tech, Ph.D. Professor & Head of the Department Department of E.C.E, G. Pulla Reddy Engineering college, Kurnool.

ADM

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sceenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

Agen

MOHAMMED SAYEED S (189X1A04E3)

1

TABLE OF CONTENTS

Chapte	r No	Chapter	Page No
	1	Introduction	4
	2	Company Profile	3
	2.1	History	3
	2.2		7
	2.3		8
	2.4	Finance	8
	2.5	Corporate Social Responsibility	8
	2.6	Awards	8
3	Contraction of the local division of the loc	Domain: ADM Java Advanced with Angular	9
	3.1	Key benefits of Application Development and Maintenance	9
4		Technologies Learnt	10
	4.1	HTML	10
	4.2	CSS	10
	4.3	JavaScript	11
	4.4	SQL	12
	4.5	Java	13
	4.6	Python	15
	4.7	Junit	17
	4.8	Application Debugging	17
	4.9	ITIL/SCM Tools	18
	4.10	Bootstrap	19
	4.11	jQuery	20
	4.12	Window Services	21
	4.13	GIT	22
5		Project Description	23
	5.1	Differently Abled Students	23
	10000	Front End Files	24
		Back End Files	24
	253,977 (7) 3	Architecture	25
		Result	26
6	A COLUMN TO A COLUMN	Conclusion	27
U	-	References	28

LIST OF FIGURES

Fig no.	Description	Page no.
	Office	5
2.1	HTML	10
4.2	CSS	11
4.3	JavaScript	1.1
4.4	SQL and MySQL	12
4.5	Java	14
4.6	Python	16
4.7	Application Debugging	17
4.8	Jim	19
4.9	Bootstrap	20
4.10	jQuery	20
4.11	Window Services	21
4.12	GIT	22
5.1	Differently Abdled Students	23
5.2	Front End Files	2.4
5.3	Back End Filles	24
5.4	Architecture	25
5.5	Certificate of Completion	26

DEPARTMENT OF ECE, GPREC

CHAPTER-1 INTRODUCTION

1. PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. Thave tried my best to combine the both together. The company I pursued internship Cognizant Technology Solutions. It is one of the leading software companies in India.

2. OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

3. SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Quality Engineering and Assurance with Selenium and Java

At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

01

Bachelor of Technology

In:

Electronics And Communication Engineering

Submitted By

Shaik Khalid Ahmed (189X1A04F7)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G PULLA REDDY ENGINEERING COLLEGE (AUTOMOMOUS) KURNOOL (Accredited by NBA and NAAC of UGC with A+ grade) Affiliated to JNTUA, Ananthapuramu.



This is to certify that the preliminary internship entitled

Quality Engineering and Assurance with Selenium and Java

Is a bona fide record of work carried

By S.Khalid Ahmed (189X1A04F7)

In fulfillment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY

ELECTRONICS AND COMMUNICATION ENGINEERING

Head of the Department

Dr. S. Nagarajo, Rao, M. Tech, Ph.D Professor and Head of the Department, Department of E.C.E, G. Pulla Reddy Engineering College, Internal Supervisor .

Sri B.Siva Reddy , M. Tech, (Ph.D) Assistant Professor, Department of E.C.E, G. Pulla Reddy Engineering College,

Kurnool.

Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

S. Khalid Ahmed (189X1A04F7)

INTERNSHIP REPORT ON QEA - SELENIUM WITH JAVA

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	.4
1.2 Objective	4
1.3 Scope	4
Chapter – 2 Company Profile	
2.1 History	5
2.2 Product and Services	7 7
2.3 Management	
2.4 Finance	7
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter – 3 Domain -Quality Engineering and Assurance with Selenium and Java	
3.1 Quality Assurance in Software Testing	9
3.2 Testing Methods	12
3.3 Testing Types	12
3.4 Manual Testing	13
3.5 Automated Testing	14
3.6 Testing Webpage and Website through Selenium	14
Chapter – 4 Technologies Learnt	16
Chapter – 5 Projects	
5.1 Mini Project	17
5.2 Hackathon Project	19
5.3 Main Project	21
Chapter -6 Conclusion	22
References	23

INTERNSHIP REPORT ON GEA - SELENIUM WITH JAVA

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	05
3.1	Quality Assurance Process	09
3.2	Quality Control	10
3.3	Quality Control Vs Quality Assurance	11
5.1	Mini Project Structure	18
5.2	Hackathon Project Report	19
5.3	Hackathon Project Structure	20
5.4	Main Project Structure	20
5.5	Main Project Report	21

DEPT OF

INTERNSHIP REPORT ON QEA - SELENIUM WITH JAVA

LIST OF ABBREVIATIONS

Abbreviation	Descriptio n
QA	Quality Assurance
OTP	Quick Test Professional
SDLC	Software Development Life Cycle Software Quality
SQL	Structured Query Language
UFT	Unified Functional Testing
CSS	Cascading Style Sheet
HTML	Hypertext Markup Language

DEPT OF

INTERNSHIP REPORT ON QEA - SELENIUM WITH JAVA

CHAPTER-1 INTRODUCTION

1.1 PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.20BJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

DEPT OF

An Internship Report

on

ARTIFICIAL INTELLIGENCE AND ANALYTICS

at

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

of

Bachelor of Technology

In

Electronics and Communication Engineering

Submitted By

S.REVANTH REDDY (189X1A04G0)



Department of Electronics and Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous)

KURNOOL.

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA,

Anantapuramu(2021-2022)



CERTIFICATE

This is to certify that the internship entitled

ARTIFICIAL INTELLIGENCE AND ANALYTICS

is a bonafide record of work carried out

by

S.REVANTH REDDY (189X1A04G0)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Dr. M.V.RVITTAL, M.Tech.Ph.D.

Associateprofessor,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

HEAD OF THE DEPARTMENT

Dr. S.Nagaraja Rao M.Tech, Ph.D.

Professor and Head of the Department

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

S. Revents Perz.

S. REVANTH REDDY (189X1A04G0)

TABLE OF CONTENTS

Chapter - 1 Introduction	5
L.I.Preamble	3
1.2 Objective	3
1.3 Scope	
Chapter - 2 Company Profile	
2.1 History	6
2.2 Product and Services	8
2.3 Management	9
2.4 Finance	9
2.5 Corporate Social Responsibility	9
2.6 Awards	9
Chapter - 3 Domain - Artificial Intelligence And Analystics	
	12
3.1 Database	13
3.1.1 Three Level Architecture for a DBMS	15
3.2 Relational Database and Management	16
3.2.1 Keys	17
3.2.2. Normalization	20
3.3 Structured Query Language	20
3.3.1 SQL Statements	20
3.3.2 Subqueries	
3.3.3 Joins	23
3.4 Data Warehouse	26
3.4.1 Characteristics	26
3.4.2 Star Schema	28
3.4.3 Snow Flake Schema	28
3.4.4 OLTP vs OLAP	29
3.5 Informatica Power Center	31
3.5.1 Components	32
3.5.2 Transformations	36
	38
3.5.3 SCD Type - 1	38
3.5.4 SCD Type - 2	

Chapter – 4 Technologies Learnt	40
Chapter - 5 Projects	41
Chapter - 6 Conclusion	47
References	48

ALA

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	6
3.1	File vs DBMS	12
3.1	DBMS Overview	13
3.3	ANSI Architecture	14
3.4	Popular Package of RDBMS	15
3.5	Inner Join	24
3.6	Left Join	24
3.7	Right Join	25
3.8	Outer Join	25
3.9	Data Warehouse	27
3.10	Star Schema	28
3.11	Snow Flake Schema	28
3.12	ETL	29
3.13	OLAP vs OLTP	31
3.14	Repository Manager	33
3.15	Informatica Designer	34
3.16	Workflow Monitor	35
3.17	Workflow Manager	36
3.18	SCD Type - 2	39
5	Snapshots of results	42

LIST OF TABLES

Table no.	Description	Page no.
3.1	I" Normal Form	17
3.2	2nd Normal Form	18
3.3	3 rd Normal Form	19
3,4	SQL STATEMENTS	20

CHAPTER-1 INTRODUCTION

1.1 PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

BIG DATA WITH AVM ORIENTATION

At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

YELLAKANTI NIKHIL(189X1A04H0)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Automotion) KURNOOL

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to INTU-A,

Anantapurainu(2021-2022)



CERTIFICATE

This is to certify that the preliminary internalop contled

BIG DATA WITH AVM ORIENTATION

is a bouafide record of work carried

By

YELLAKANTI NIKHIL(189X1A04H0)

In fulfillment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

T. Saratt Baby 30 6 22 DR.T.Sarath Baby, M.Tech

Assistant Professor,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

HEAD OF THE DEPARTMENT

Dr. S.NAGARAJA RAO M.Tech, Ph.D.

Professor and Head of the Department Department of ECE,

G. Pulla Reddy Engineering College.

(Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

Yellakanti Nikhil(189X1A04H0)

BIG DATA WITH AVM ORIENTATION

TABLE OF CONTENTS

Chapter – 1 Introduction	
1.1 Preamble	6
1.2 Objective	6
1.3 Scope	6
Chapter - 2 Company Profile	
2.1 History	7
2.2 Product and Services	9
2.3 Management	9
2.4 Finance	9
2.5 Corporate Social Responsibility	9
2.6 Awards	1

Chapter – 3 Domain – BIG DATA WITH AVM	
ORIENTATION	
3.1 Database	15
3.1.1 Three Level Architecture for a DBMS	16
3.2 Relational Database and Management	12
3.2.1 Keys	19
3.2.2. Normalization	20
3.3 Structured Query Language	
3.3.1 SQL Statements	23
3.3.2 Subqueries	25
3.3.3 Joins	26
3.4 Data Warehouse	
3.4.1 Characteristics	- 20
3.4.2 Star Schema	29
	32

3.4.3 SnowFlake Schema 3.4.4 OLTP vs OLAP 3.5 JAVA PROGRAMMING	- 32 33
3.5.1 Basics of java programming 3.5.2 Java IDE	35
3.5.3 Statements And Operators	36 36
3.5.4 Wrapper Classes 3.5.5 Exceptional Handling	37
3.6 PYTHON PROGRAMMING 3.6.1 Python Basics	37
3.6.2 Python Modules	38
3.7 Bigdata	
3.7.1 Introduction to Bigdata and Hadoop	38 39
3.7.2 HDFS AND Mapreduce 3.7.3 Scoop	40
3.7.4 Hive and Hive Cont	41
3.7.5 Scala	42
3.7.6 Spark	42

BIG DATA WITH AVM ORIENTATION

Chapter-4 Technologies learnt	44	
Chapter-5 Conclusion	45	
References	46	

LIST OF FIGURES

Fig no.	Description	
21	Office	7
3.1	File vs DBMS	15
3.2	DBMS Overview	16
3.3	ANSI Architecture	17
3.4	Popular Package of RDBMS	18
3.5	Inner Join	23
3.6	Left Join	27
3.7	Right Join	27
3.8	Outer Join	28
3.9	Data Warehouse	28
3.10	Star Schema	30
3.11	SnowFlake Schema	32
3.12	ETL	33
3.13	OLAP VS OLTP	35
3.14	HDFS ARCHITECTURE	39
3.15	MAPREDUCE OVERVIEW	40

LIST OF TABLES

	Description	page.no
no.	Los Atomical Damas	20
3.1	Ist Normal Form	21
3.2	2nd Normal Form	22
	3 rd Normal Form SQL STATEMENTS	23

CHAPTER-I INTRODUCTION

LI PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G Pulla Reddy Engineering College provides glorious opportanity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship with was Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth. An Internship Report On

Artificial Intelligence and Analytics

At

Cognizant Technology Solutions in partial fulfilment for the award of the degree of

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

Katari Sri Shashank (189X1A04H8)



Department of Electronics and Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous)

KURNOOL

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA,

Anantapuramu (2021-2022)



CERTIFICATE This is to certify that the preliminary internship entitled

Artificial Intelligence and Analytics

is a bona fide record of work carried

By

KATARI SRI SHASHANK (189X1A04H8)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL SUPERVISOR M.tech, Ph.D Dr.R rofessor. Assi

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

HEAD OF THE DEPARTMENT Dr. S.NAGARAJA RAO M. Tech, Ph.D.

Professor and Head of the Department,

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr.B.Sreenivasa Reddy who gave me the golden opportunity to do this internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

KATARI SRI SHASHANK (189X1A04H8)

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	*
1.2 Objective	
1.3 Scope	
Chapter - 2 Company Profile	
2.1 History	5
2.2 Product and Services) 7
2.3 Management	7
2.4 Finance	7.0
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter-3 Domain - Artificial Intelligence and Analytics-Azure	9
3.1 Database	
3.1.1 Three Level Architecture for DBMS	11
3.2 Relational Database Management System	12
3.2.1 Keys	13
3.2.2 Normalisation	14
3.3 Structured Query Language	16
3.3.1 SQL statements	
3.3.2 Subqueries	18
3.3.3 Joins	19
3.4 Data Warehouse	21
3.4.1 Characteristics	22
3.4.2 Star Schema	23
3.4.3 Snowflake Schema	23
3.4.4 OLTP vs OLAP	- 24
3.5 Big Data	
3.5.1 Hadoop	27
3.5.2 Apache Hive	31
DEPT OF ECE, GPKEC	Pag

	36
3.5.3 Apache Pig	37
3.6 Microsoft Azure	40
3.6.1 Cloud Computing	43
3.6.2 Azure Storage Building Blocks	45
3.6.3 Azure Network Service	47
3.6.4 Azure Compute Service	48
Chapter - 4 Technologies Learnt	49
Chapter -5 Conclusion	-

References

DEPT OF ECE, GPREC

LIST OF FIGURES

		Page no.
Fig no.	Description	05
Fig no.	Office	31
	File System vs DBM5	13
5.2	RDBM5 workflow	14
	SQL keys	15
3.3	First Normal Form	16
3.4	Second Normal Form	17
3.5	Third Normal Form	a de la consecution
3.6	SISTERNA CONTRACTOR	20
3.7	Joins in SQL	22
3.8	Data Warehouse Architecture	24
3.9	Star Schema	24
3.10	Snowflakes Schema	30
	Hadoop Architecture	
3.11	Apache Hive Architecture	32
3,12	Partitioning vs Bucketing	35
3.13		38
3.14	Microsoft Azure	39
3.15	Regions and Availability	42
3.16	Cloud Services Types	- 41
3.17	Azure Storage Architecture	

DEPT OF ECE, GPREC

LIST OF ABBREVIATIONS

Abbreviation	Description
SQL	Structured Query Language
OLAP	Online Analytical Processing
OLTP	Online Transactional Processing
VM	Virtual Machine
HDFS	Hadoop Distributive File System
YARN	Yet Another Resource Manager
ETL	Extract, Transform, Load
DBMS	Database Management System
DDL	Data Definition Language
DML	Data Manipulation Language

DEPT OF ECE.GPREC

CHAPTER-1

INTRODUCTION

LI PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship with is Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

DEPT OF ECE.GPREC

An Internship Report On

Artificial Intelligence And Analytics At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

Y Naveen Kumar Reddy (189X1A04J0)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharial Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous) KURNOOL

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA,

Anantapuramu(2021-2022)



CERTIFICATE Thisistocertifythatthepreliminaryinternship entitled

Artificial Intelligence And Analytics

is a bona fide record of work carried

By

Y Naveen Kumar Reddy (189X1A04J0)

In fulfilment of the requirements for the award of degree BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Sri L.L. Prasanna Kumar, M.Tech, Assistant Professor, Department of ECE, G. Pulla Reddy Engineering College, (Autonomous), Kurnool.

HEAD OF THE DEPARTMENT

Dr. S.Nagaraja Rao M.Tech, Ph.D, Professor and Head of the Department Department of ECE, G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

Naveen Kumar Reddy (189X1A04J0)

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	4
1.2 Objective	-4
1.3 Scope	- 4
Chapter - 2 Company Profile	
2.1 History	5
2.2 Product and Services	7
2.3 Management	7
2.4 Finance	7
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter - 3 Domain - Artificial Intelligence And Analystics	
3.1 Database	9
3.1.1 Three Level Architecture for a DBMS	12
3.2 Relational Database and Management	12
3.2.1 Keys	15
3.2.2. Normalization	16
3.3 Structured Query Language	19
3.3.1 SQL Statements	19
3.3.2 Subqueries	21
3.3.3 Joins	22
3.4 Data Warehouse	25
3.4.1 Characteristics	25
3.4.2 Star Schema	27
3.4.3 Snow Flake Schema	27
3.4.4 OLTP vs OLAP	28
3.5 Informatica Power Center	30
3.5.1 Components	31
3.5.2 Transformations	35
3.5.3 SCD Type - 1	37
3.5.4 SCD Type - 2	37

DEPT OF ECE, GPREC

Chapter - 4 Technologies Learnt	39
Chapter - 5 Projects	
5.1 Route Management System	40
Chapter - 6 Conclusion	45
References	46

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	5
3.1	File vs DBMS	11
3.2	DBMS Overview	12
3.3	ANSI Architecture	13
3.4	Popular Package of RDBMS	14
3.5	Inner Join	23
3.6	Left Join	23
3.7	Right Join	24
3.8	Outer Join	24
3.9	Data Warehouse	26
3.10	Star Schema	27
3.11	Snow Flake Schema	27
3.12	ETL	28
3.13	OLAP vs OLTP	30
3.14	Repository Manager	32
3.15	Informatica Designer	33
3.16	Workflow Monitor	34
3.17	Workflow Manager	35
3.18	SCD Type - 2	38
3.18	Architecture Diagram	41
5.2	Snapshots of results	42

LIST OF TABLES

Table no.	Description	Page no.
31	1 st Normal Form	16
3.2	2nd Normal Form	17
3.3	3rd Normal Form	18
3.4	SQL STATEMENTS	19
3.5	Software System	41

DEPT OF ECE, GPREC

CHAPTER-1 INTRODUCTION

L PREAMBLE:

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internship is Cognizant Technology Solutions. It is one of the leading software companies in India.

2. OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

3. SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

An Internship Report On

Artificial Intelligence And Analytics At

Cognizant Technology Solutions

in partial fulfillment for the award of the degree

Of

Bachelor of Technology

In

Electronics And Communication Engineering

Submitted By

CH. THARUN SAI (199X5A04J9)



Department of Electronics And Communication Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuramu)

2021-2022

G. PULLAREDDY ENGINEERING COLLEGE (Autonomous) KURNOOL

(Accredited by NBA and NAAC of UGC with A+ grade)

Affiliated to JNTUA.

Anantapuramu(2021-2022)



CERTIFICATE

This is to certify that the preliminary internship entitled

Artificial Intelligence And Analytics

is a bona fide record of work carried

By

CH. THARUN SAI (199X5A04J9)

In fulfilment of the requirements for the award of degree

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

SUPERVISOR. INTER Dr. S. Nagaraja Rao M Tech, Ph D,

Professor and Head of the Department, Department of ECE, G. Pulla Reddy Engineering College,

(Autonomous), Kurnool

HEAD OF THE REPARTMENT

Dr. S.Nagaraja Rao M.Tech, Ph.D.

Professor and Head of the Department

Department of ECE,

G. Pulla Reddy Engineering College,

(Autonomous), Kurnool.

ACKNOWLEDGEMENT

I would like to express my special thanks to my Head of the Department Dr.S.Nagaraja Rao as well as our principal Dr. B. Sreenivasa Reddy who gave me the golden opportunity to do this wonderful internship at Cognizant Technology Solutions, which provided me an opportunity to explore the new horizons. I sincerely express my gratitude towards the Cognizant Technology Solutions for providing this opportunity.

CH. THARUN SAI (199X5A04J9)

TABLE OF CONTENTS

Chapter - 1 Introduction	
1.1 Preamble	(4)
1.2 Objective	4
1.3 Scope	4
Chapter - 2 Company Profile	
2.1 History	5
2.2 Product and Services	7
2.3 Management	7
2.4 Finance	7
2.5 Corporate Social Responsibility	7
2.6 Awards	8
Chapter - 3 Domain - Artificial Intelligence And Ar	alystics
3.1 Database	9
3.1.1 Three Level Architecture for a DBMS	12
3.2 Relational Database and Management	12
3.2.1 Keys	15
3.2.2. Normalization	16
3.3 Structured Query Language	19
3.3.1 SQL Statements	19
3.3.2 Subqueries	21
3.3.3 Joins	22
3.4 Data Warehouse	25
3.4.1 Characteristics	25
3.4.2 Star Schema	27
3.4.3 Snow Flake Schema	27
3.4.4 OLTP vs OLAP	28
3.5 Informatica Power Center	30
3.5.1 Components	31
3.5.2 Transformations	35
3.5.3 SCD Type - 1	37
3.5.4 SCD Type - 2	37

DEPT OF ECE, GPREC

Chapter - 4 Technologies Learnt	39
Chapter - 5 Projects	
5.1 Route Management System	-40
Chapter - 6 Conclusion	-45
References	46

LIST OF FIGURES

Fig no.	Description	Page no.
2.1	Office	5
3.1	File vs DBMS	11
3.2	DBMS Overview	12
3.3	ANSI Architecture	13
3.4	Popular Package of RDBMS	14
3.5	Inner Join	23
3.6	Left Join	23
3.7	Right Join	24
3.8	Outer Join	24
3.9	Data Warehouse	26
3.10	Star Schema	27
3.11	Snow Flake Schema	27
3.12	ETL	28
3.13	OLAP vs OLTP	30
3.14	Repository Manager	32
3.15	Informatica Designer	33
3.16	Workflow Monitor	34
3.17	Workflow Manager	35
3,18	SCD Type - 2	38
3.18	Architecture Diagram	41
5.2	Snapshots of results	42

LIST OF TABLES

Table no.	Description	Page no.
3.1	1 st Normal Form	16
3.2	2nd Normal Form	17
3.3	3 rd Normal Form	18
3.4	SQL STATEMENTS	19
3.5	Software System	41

CHAPTER-1 INTRODUCTION

1.1 PREAMBLE :

Internship is the process of on-the-job training, which is particularly beneficial for students with major in technical courses. G.Pulla Reddy Engineering College provides glorious opportunity to it's students of having an internship within their bachelor program. The three month internship program is another, possibly most effective way of achieving industry orientation. Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. The company I pursued internshipin Cognizant Technology Solutions. It is one of the leading software companies in India.

1.2 OBJECTIVE:

This report has been prepared as a requirement of the internship program for the degree. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 SCOPE:

This report gives an insight of the experience that I faced in my workplace at Cognizant Technology Solutions. It also provides a brief description of Cognizant Technology Solutions for students who are interested about Cognizant Technology Solutions for their professional growth.

AN INTERNSHIP REPORT ON WEB TECHNOLOGIES AT TECHIGAI



An Internship report submitted in fulfillment of requirements for the Award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted By

M.SIVA CHANDRA-189X1A0499

G.PULLA REDDY ENGINEERING COLLEGE (Autonomous) (Affiliated to JNTUA, ANANTHAPURAMU) KURNOOL – 518007 2021- 2022

G.PULLA REDDY ENGINEERING COLLEGE (Autonomous)

KURNOOL.

(Accredited by NBA of AICTE & NAAC(A+) of UGC)

Affiliated to JNTUA, Anauthapurama



CERTIFICATE

This is to certify that the preliminary internship entitled

Web Technologies

is the bonafide record of work carried out by

M.SIVA CHANDRA - 189X1A0499

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Head of the Departme

Dr. S Nagaraja Rao, M.Tech, Ph.D. Professor & Head of the Department, Department of ECE, GPREC, KURNOOL-518007

Internal Supervisor

Dr.D.R.Srinivas, M.S, Ph.D. Associate Professor, Department of ECE, GPREC, KURNOOL-518007

INTERNALIP COMPLETION CERTIFICATE

techigai

46 Jul. 3822

TO WARDEN WARD IT WAS CONCERN.

This is as settily that have Maragadie in Ampleonal with Fachagat Provide Lineard in Transm Stationer Strapencer State 1972 in with Jack

We are larger to aslare that from Manapalis is panetual at work, compliting assignments to satisfaction, manuscrap good conduct with other associates at work.

For Tachigai Private Limbud

Samoh G.

DECLARATION

I hereby declare that internship training titled on 'HTML, CSS, JAVASCRIPT, REACT JS AND SQL' at Techigat is submitted for the Department of Electronics and Communication Engineering.

This dissertation is our original work and the work has not formed the basis for the award of any degree, associate-ship and fellowship or any other similar titles and no part of it has been published or sent for publication at the time of submission.

> M Siva Chandra MLSIVA CHANDRA (REGD.NO: 189X1A0499)

ACKNOWLEDGEMENT

I, greatly indebted to our G. Pulla Reddy Engineering College (Autonomous) that has provided us a healthy environment to drive us to achieve our goals and ambitions.

We express our heartfelt gratitude to our honourable principal Dr.B. SREENIVASA REDDY for meticulously planning academic curriculum and for the permission to carry out our mini project. We are grateful to extend our deep sense of gratitude to Dr.S.NAGARAJA RAO, Professor and Head of the Department, Department of Electronics and communication Engineering for his valuable guidance and support throughout the duration of the course of mini project.

Our sincere thanks to our beloved professor and internal guide Dr.D.R.Srinivas for her guidance, contribution and moral support which encouraged us to complete our mini project successfully. Finally, we wish to extend our thanks to all the ECE department teaching and non-teaching staff members

for helping us to learn and utilize the facilities available in the labs, during this project work.

M.SIVA Chandra M.SIVA CHANDRA (REGD.NO: 189X1A0499

ABSTRACT

Powered by a passion for technology and driven by heart, we build empathy-driven technology solutions with core focus on purpose. Proven leaders in their domains, our founders bring over 100 years of combined technical expertise. The very reason for our existence is to draw from that deep understanding of global markets and help our clients envision the Next, and create a resilient way forward that helps them stay boldly ahead of the curve. In today's uncertain world where unpreparedness could roinously cost you, we engage with our clients in a way that offers them a proven method to construct, orchestrate and enable necessary changes to achieve a strategic competitive advantage.

Techigai was inspired by the Japanese concept of Ikigai – 'iki' meaning life and 'gai' meaning a motivating force that gives a sense of purpose. As a Trainee Software Engineer, 1 got hands-on experience on key technologies like front end technologies as React JS, HTML & CSS, concepts of Javascript, React JS and SQL. As a traince we are expected to achieve the expectations of our mentors who assess us according to our works done and sessions conducted daily. I was assigned assignments after the completion of the topics of training and was able to do it to their expectations. The assignment is given after the completion of every topic and is given a limited amount of time. The mentors assess our work personally and give us feedback to improve our work. Workshop was also held, where a mock up was given and I had to replicate it as exact as possible. It's enlightening to do work there and I am expanding my technical knowledge as much as I can.

CONTENT

Chapter 1- Introduction	
1.1. Introduction to TECHIGAI	pg.no.8
1.2.Objectives	Pg.no.9
1.3.Scope 1.4.?Outline of the method	Pg.no.10 Pg.no.10
Chapter 2- weekly report	Pg.no.11
Chapter 3- Internship Content	Pg.no.17
3.1 Html and Css	Pg.no.17
3.2 Javascript	Pg.no.18
3.3 React js	.Pg.no.19
3.4 Ms Sql	.Pg.no.19
Chapter-4 : Methodology	Pg.no.21
Chapter-5 : Assignments and workshops	.Pg.no.24
Chapter-6 : Results	.Pg.no.30
Chapter-7: Discussions	Pg.no.32
Chapter-8: Conclusion	.Pg.no.33
Chapter-9:References	Pg.no.34

CHAPTER-1

LINTRODUCTION

1.1 INTRODUCTION TO TECHIGAI

Powered by a passion for technology and driven by heart, we builempathy-driven technology solutions with a core focus on purpose. Proven leaders in their domains, our founders bring over 100 years of combined technical expertise. The very reason for our existence is to draw from that deep understanding of global markets and help our clients envision the Next, and create a resilient way forward that helps them stay boldly ahead of the curve. In today's uncertain world where unpreparedness could ruinously cost you, we engage with our clients in a way that offers them a proven method to construct, orchestrate and enable necessary changes to achieve a strategic competitive advantage.Born out of the spirit of innovation and the concept of Ikigai. Techigai delivers impactful turnkey technology solutions designed to transform. Scale digital transformation programs quickly and effectively, with a design strategy that is centered around the genuine needs of target users Good experience integrates creativity and innovation. It turns ideas into practical and attractive propositions for customers. The tremendous proliferation of apps and products in the current digital environment has compelled businesses to compete for the user's attention every second. Developing solutions with a user-centric design philosophy that values their needs, perceptions, contexts, and emotions become essential for success.

At Techigai, we believe in designing great experiences across the value chain. Our experience services focus on creating engaging and satisfying experiences for your users to ensure they keep coming back. From gaining deep insights into the user's need to launching prototypes for market validation to going live and ongoing improvements on your product, our UE/UX experts strive to create delightful experiences through all touchpoints. Today's need of the hour is to shorten application development and deployment cycles. With cloud computing, easy-to-use API-based services, SDKs, and low-code environments paving the way, our end-to-end software development services help reduce the time-to-market by as much as 30%. Our engineers with product-thinking DNA maintain an optimal balance between the build and buy to minimize operational overheads while ensuring application reliability, security, and scalability.

1.2OBJECTIVES

- Internships are generally thought of to be reserved for college students looking to gain experience in a
 particular field. However, a wide array of people can benefit from Training Internships in order to
 receive real world experience and develop their skills.
- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more
- Some internships are used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs.
- When you are applying for a Training Internship, make sure to highlight any special skills or talents
 that can make you stand apart from the rest of the applicants so that you have an improved chance of
 landing the position.

1.3 SCOPE

- The hands-on work experience interns receive is invaluable and cannot be obtained in a classroom setting, making this one of the most important scope of internships.
- Interns have the opportunity to apply acquired knowledge to real work experiences, witnessing firsthand the day-to-day job duties they can expect to encounter in their chosen field.
- In addition to learning the specialized skills of a particular field, transferable skills such as
 communication, teamwork, and computer proficiency are also obtained in an internship, fully
 preparing intens to enter the workforce upon graduation Exploring is an important part of the
 college experience, and internships are a great way for students to acquaint themselves with the field
 they are interested in.
- Some students begin college with a major or career path in mind, and end up changing their minds later on. Taking on an internship while in college allows students to work in their desired field, helping them decide if the field is right for them. By graduation, students who interned are more likely to feel confident they chose the right degreeOne of the most important internship scope is that college graduates who already have some work experience in the form of an internship stand out to potential employers
- Internship experience makes a college grad more marketable as they usually require less training
 and can handle more responsibilities. You may also receive a higher starting salary than those who

do not have internship experience and are entering the workforce or starting a new careerYou can learn a lot about your strengths and weaknesses during an internship.

- Internships allow for feedback from supervisors and others who are established in the field, and offer
 a unique learning opportunity that you may not have again as a working adult. Embrace the mistakes
 you make as an intern and the many things that you won't know. Ask questions, observe, and take
 risks to get the most out of your internship training experience. Many internships are paid which
 means you can gain valuable work experience and make money at the same time.
- A paid internship will provide money to fund your college tuition and expenses. In the working
 world, it's all about who you know. As an intern, you will be surrounded by professionals in the
 industry. Internships are more than just about earning credit, getting a grade, or making money;
 internships provide an opportunity to learn from the people around you, ask questions, and impress.
 The professionals you encounter during an internship can be your future colleagues or the connection
 to your first job Internships allow you to test out specific techniques learned in the classroom before
 entering the working world. It's an opportunity to apply what you have learned in a safe environment
 where mistakes are expected rather than learn the hard way in your first job out of college
- Many companies use internships as a way to enhance their recruitment efforts. In some cases, a
 company may decide to hire an intern at the end of the assignment. Even if a job offer doesn't
 happen right away, an intern who makes a favorable impression could receive an offer down the line
 when an opening occurs. It's a way for companies to test out an employee before committing to
 hiring them.

1.4 OUTLINE OF THE METHOD

The internship program methodology is:

PHASE 1:

The first phase of training is given on important and basic topics like:

- HTML & CSS
- 2. JAVASCRIPT
- 3. REACT JS
- 4. MS SQL

As our training is still going on we are yet to explore frameworks and many

more things.

PHASE 2:

The second phase of the training is, after the completion of every topic we have sessions which are more sort of a group discussion. We all gather around with our trainer and discuss or try to share the knowledge.

PHASE 3:

The third phase of training is ending the whole topic with a workshop where we are given a particular assignment and we have to work upon it to make it as real as possible.

CHAPTER -2

WEEKLY REPORT

Internship acceptance cum undertaking letter

Dr. S.Nagaraja Rao, Dept. of Electronics and Communication Engineering GPREC.

Sir,

To

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant Technology Solutions.

I, Makam Hari Priya, bearing Roll No. 189X1A0471, studying in the B.Tech -VIII Semester, Electronics and Communication Engineering, have got an opportunity to pursue full internship in the 8th semester at Cognizant Technology Solutions in online mode. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

Guidelines for B.Tech students pursuing internship in the final semester

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official
 communication from any reputed company/organization, subject to the recommendation /
 approval of the Internship Monitoring and Evaluation Committee of the department,
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students
 periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be
 dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the
 respective company. Under genuine reasons, they may seek leave from the company authorities
 and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).

Relieving letter

.

Date:10/03/2022

Pro-mr : Dr. S. Nagaraja Rao. Head of the Department,

Herran Resource

Lugnizand

VILL - president

10

GPREC, Kurnool.

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15% January 2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

2	Name of the student	Roll No.	Branch	Branch Ph.no. & e-mail id
	Makam Hart Priya	189X1A0471 ECE	ECE	9676078353 makamharipriya23@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: Dr.S. M. Shamsheer Daula	Designation: Associate Fruiteaux	1
e-mail id: shamsheerdaula@gmail.com Ph.No: 9949210019	e-mail id: shamsheerdaula@gmail.com Address: Dept. of Electronics and Communication Ph.No. 9949210019	E
This internshin heine an essential pa	This intership heine an essential part of the curriculum, the following guidelines have been	E.

prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us. .
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible. ٠
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date). •
 - Internship completion certificate shall be sent with the student. •

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated. The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 17-02-2022 with a copy of this letter.

Professor in charge of Internship/Placements

Head of the Bepartin Master

Internship acceptance cum undertaking letter

Dr. S. Nagaraja Rao, Ph. D, Dept. of Electronics and Communication Engineering, G. Pulla Reddy Engineering College(Autonemous)

Sir,

To

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant

I, <u>ANAGONDI CHENNA KEERTHI</u>, bearing Roll No. <u>189X1A0402</u>, studying in the B.Tech - 8th Semester - ECE, have got an opportunity to pursue full internship in the 8th semester at COGNIZANT(CTS) in BANGLORE. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

Guidelines for B.Tech students pursuing internship in the final semester

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).

Relieving letter

Date: 12/03/2022

To

Cognizant Technology Solutions,

Bangalore.

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15th January, 2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

Roll No.	Branch	Ph.no. & e-mail id
100001100000	RCE	9948691393
189X1A0402		chennakeerthi7120@gmail.com
		189X1A0402 ECE

Details of the Internal Supervisor/Project Guide:

Designation: Associate Professor				
Address: Dept. of Electronics and Communication Engineering, GPREC.				

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 05/03/2022 with a copy of this letter.

Professor In charge of Internship/Placements

Yours sincerely Blen **Head of the Department** Dr. S. NAGARAJA RAO Millern Shill MsSIF Miller

Professor & Hoan of Frid

Internship acceptance cum undertaking letter

To Dr.S.Nagaraja Rao. The Head of the Department. Dept. of ECE GPREC.

Sir,

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter communication from cognizant.

I, Challa Akhil Kumar, bearing Roll No. 189X1A0431, studying in the B.Tech -VII Semester – ECE, have got an opportunity to pursue full internship in the 8th semester at cognizant in Hyderabad. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

Guidelines for B.Tech students pursuing internship in the final semester

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.



Relieving letter

Date:09/03/2022

Dr.S.Nagaraju Rao,

The Head of the Department,

G.Pulla Reddy Engineering College ,Kurnool

Dear Sir,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15-01-2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	Challa Akhil Kumar	189X1A0431	ECE	9393393961 Challaakhilkumar7302@gmail.com

Details of the Internal Supervisor/Project Guide;

Name: k.Udaya Kiran	Designation: Assistant Professor			
e-mail id: kukiran.ece@gprec.ac.in	Address: Dept of ECE, G.Pulla Reddy Engineering College,			
Ph.No: 9490130252	Kurnool			

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 30/06/2022 with a copy of this letter.

Professor in charge of Internship/Placements

Yourssincerely Head of the Departmen

Dr. S. NAGARAJA RAO Mitech. File. Witte, Misul Professor & Hittin Or Edg G. Pulla Reddy English ing College Indonemous) KURNOCL - Sile C. J. (A.P.) India,

10 Vice President, Human Resource, CTL.

To Dr.S.Nagaraja Rao, The Head of the Department, Dept. of ECE, GPREC.

Sir,

Subject: Internship in the 8th Semester - Permission - Request - Reg. Ref: Offer letter communication from cognizant.

I, Ediga Vinod Kumar, bearing Roll No. 189X1A0438, studying in the B.Tech -VII Semester – ECE, have got an opportunity to pursue full internship in the 8th semester at cognizant in Hyderabad. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.

Date:17/03/2022

To

The Head

Cognizant Technology Solutions

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15-01-2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	Ediga Vinod Kumar	189X1A0438	ECE	8885141099 edigavinodkumar8@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: Dr.J.S.T.Thilagam	Designation: Assistant Professor
e-mail id: salaithillai.ece@gprec.ac.in	Address: Dept of ECE, G.Pulla Reddy Engineering College,
Ph.No: 9884665319	Kurnool

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 30/06/2022 with a copy of this letter.

Professor In charge of Internship/Placements

Yourssincerely Head of the Departme

Dr. S. No. 24 JA RAO No. 1010 Mister resul Professors Head of ECE G.Pulla Filthy Fig. 1000 Control (Astinomous) KUKALOL - \$15.00 (2010) Liceta, 1

To

Dr. S. Nagaraja Rao The Head of the Department Dept. of Electronics and Communication Engineering G. Pullareddy Engineering College Kurnool

Sir.

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from <u>Cognizant</u>

I. <u>N Tejasmitha</u>, bearing Roll No. <u>189X1A0453</u>, studying in the B.Tech -<u>VIII</u> Semester – <u>Electronics And Communication Engineering</u>, have got an opportunity to pursue full internship in the 8th semester at <u>Cognizant</u> in <u>Bangalore</u>. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.

Date: 11-03-2022

Frem

Dr. S. Nagaraja Rao

The Head of the Department

Dept. of Electronics and Communication Engineering

G. Pullareddy Engineering College

Kurnool

Dear Sir,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15-01-2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	N TEJASMITHA	189X1A0453	ECE	7815842696 tejasmitha9704@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: L L Prasanna kumar	Designation: Assistant Professor
e-mail id: lankek@gmail.com	Address: G. Pulla Reddy Engineering College, Kurnool-
Ph.No: 9618762804	518007

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

ţ

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 30/06/2022 with a copy of this letter.

Professor in charge of Internship/Placements

*د*13

vice presided.

Human Resource,

10

Proleman 2 stear at Cut

Yours sincerely

To The Head Dept. of ECE GPREC.

Sir,

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant Technical Solutions

I. MANIYAR MUKTYAR AHAMED, bearing Roll No. <u>189X1A0494</u>, studying in the B.Tech - <u>VIII</u> Semester -<u>ECE</u>, have got an opportunity to pursue full internship in the 8th semester at <u>Cognizant Technical Solutions</u> in <u>Hyderabad</u>. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of Internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).

Date: 08/03/2022

HOD :

Department of ECE

Dear Sir / Madam,

Sub. Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 17/01/2022 internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
01	Maniyar Muktyar Ahamed	189X1A0494	ECE	6300448349 & maniyarmuktyar786@gmail.co m

Details of the Internal Supervisor/Project Guide:

Name: G. Amjad Khan	Designation: Associate Professor
e-mail id: amjadkhan.ece@gprec.ac.in Ph.No: +91 99125 55105	Address: Department of ECE, GPREC, Kurnool

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

Professor In charge of Internship/Placements

Yourssincerely Head of the Departmen Dr. S. NAGARAUA RAO M Territ, the P. Sandy Mittell Professor 2.15 act of 10 G Polla Rendy Communication and an annual second

KURNOOL 5 2007 p. 2) Index

To Vice - president Human Resource. cognizant

To

Dr. S. Nagaraja Rao, Ph. D, Dept. of Electronics and Communication Engineering, G. Pulla Reddy Engineering College(Autonomous).

Sir,

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant Technology Solutions

I, U Vaishnavi, bearing Roll No. 189X1A04A7, studying in the B.Tech – VIII Semester Electronics and Communication Engineering(ECE), have got an opportunity to pursue full internship in the 8th semester at Cognizant Technology Solutions in online-mode. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets
 official communication from any reputed company/organization, subject to the
 recommendation / approval of the Internship Monitoring and Evaluation Committee of the
 department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students
 periodically. Any act of indiscipline, if brought to the notice of the college by the company,
 will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company

Date: 14/03/2022

To

Cognizant Technology Solutions,

Bangalore.

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15th January, 2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id	
1.	U VAISHNAVI	189X1A04A7	ECE	7337376822 uvaishnavi2822@gmail.com	

Details of the Internal Supervisor/Project Guide:

Name: Dr. M. V. R. Vittal	Designation: Associate Professor				
e-mail: vittalmvr.ece@gprec.ac.in	Address: Dept. of Electronics and Communication				
Ph.No: 9618873532	Engineering, GPREC.				

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 18/02/2022 with a copy of this letter.

In charge of Internship/Placements

incere ndia the Departmen G. Pulla Re KURNOOL

5

The Head

Dept. of Electronics and Communication Engineering GPREC.

SIF.

Ref: Offer letter / email communication from Cognizant Technology Solutions Subject: Internship in the 8th Semester - Permission - Request - Regi

grant me permission. interested in utilizing this opportunity to pursue internship and hence, request you to kindly Please find enclosed the offer letter/email communication from the company. I am very much pursue full internship in the 8th semester at Cognizant Technology Solutions in online mode. VIII Semester - Electronics and Communication Engineering, have got an opportunity to I, Ganganaboyina Sai Venkata Sumanth, bearing Roll No. 189X1A04BS, studying in the B.Tech -

same. Also, I have the consent of my parent(s) in this regard I have read the following guidelines fully and I hereby undertake to strictly follow the

- . approval of the Internship Monitoring and Evaluation Committee of the department Students will be permitted to go for internship in the final (8%) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation /
- code of conduct during the period of internship The students shall strictly ablde by the rules and regulations of the company and adhere to their
- ٠ dealt with seriously, which may include cancellation of the internship periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be The college seeks feedback from the company on the performance and conduct of students
- ٠ internship. However, they may receive stipend if offered by the company. The students shall bear all the expenditure for food / traveling / accommodation etc., during the



Date: 17/03/2022

To

The Head

Cognizant Technology Solutions

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15/01/2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1.	Ganganaboyina Sai Venkata Sumanth	189X1A04B5	ECE	9381250148 saisumanth.g5213@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: T.Swati	Designation: Asst.Professor					
e-mail: swati.thimmapuram@gmail.com Ph.No:. 9491411634	Address: Engineerin		of	Electronics	and	Communication

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 18/02/2022 with a copy of this letter.

Professor In charge of

Professor In charge pi Internship/Placements

Yours sincerely Head of the Depar Dr. S. NAGARAJA RAO

M.Tech., Ph.S., Fright, Misul Professor & Hanniel 1938 G.Pulla Roddy English - and Provider of the KURNOOL - Bitt On Landshold (a.

To Dr. S.Nagaraja Rao, Dept. of Electronics and Communication Engineering, GPREC.

Sir.

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant Technology Solutions

I. Pasunoori Bhavana, bearing Roll No. 189X1A04C7, studying in the B.Tech – VIII Semester Electronics and Communication Engineering(ECE), have got an opportunity to pursue full internship in the 8th semester at Cognizant Technology Solutions in onlinemode. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets
 official communication from any reputed company/organization, subject to the
 recommendation / approval of the Internship Monitoring and Evaluation Committee of the
 department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company

Date:10/03/2022

om: Dr. S. Nagaraja Rao,

Dept. of Electronics and Communication Engineering, GPREC.

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15th January 2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	PASUNOORI BHAVANA	189X1A04C7	ECE	8185017008 pasunooribhavana123@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: Smt. A.Parvathi	Designation: Assistant Professor				
e-mail id: parvathi.ece@gprec.ac.in	Address: Dept. of Electronics and Communication				
Ph.No: 9440360352	Engineering, GPREC.				

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 17/02/2022 with a copy of this letter.

Professor Iff charge of Internship/Placements

Yourssincerely Head of the Department Dr. S. NAGAPAJA RAO

M Tech., Philo Mattine, Misul Professor 2, 112 of of ECE G. Pulla Reddy Engloyed in this (Autonomous) KURNOOL - ELBERT, (A.P.) India.

TO. Vice-president Human Resource. Lognizant

To The Head Dept. of ECE GPREC.

Sir,

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from CTS

I, Peese Lavanya bearing Roll No. 189X1A04C8 studying in the B.Tech -VIII Semester – ECE have got an opportunity to pursue full internship in the 8th semester at CTS in Hyderabad. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).



Date:05/03/2022

The head

from :

Dept.of ECE

GPREC.

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated CTS offering internship to the following student(s). We thank you for giving our students this opportunity:

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	P.Lavanya	189X1A04C8	ECE	8919787151
			-	peeselavanya@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: J.S.T.Thilagam	Designation:M.tech,Ph.D,Associate Professor				
e-mail id:salaithillai.ece@gprec.ac.in	Address: ECF Deportment	518007			
Ph.No:.9884665319	G.Rilla Roldy engineering Co	llege Kianool			

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated. The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 05/03/2022 with a copy of this letter.

Professor In charge of

Professor In Charge of Internship/Placements

TO Vice-president Human Resource. Lognizant-

Yours sincerely Head of the Departmen

To The Head Dept. of Electronics and Communication Engineering GPREC.

Sir,

Subject: Internship in the 8" Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant Technology Solutions.

I, Shaik Sameera Sulthana, bearing Roll No. 189X1A04D4, studying in the B Tech - VIII Semester – Electronics and Communication Engineering, have got an opportunity to pursue full internship in the 8th semester at Cognizant Technology Solutions in Hyderabad. Please find enclosed the offer letter/email communication from the company I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard

Guidelines for B.Tech students pursuing internship in the final semester

- Students will be permitted to go for internship in the final (9") semester, if the college
 gets official communication from any reputed company/organization, subject to the
 recommendation / approval of the Internship Monitoring and Evaluation Committee of the
 department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc. during the internship. However, they may receive stipend if offered by the company

.

Date: 10-03-2022

From The Head The vice president, theman Resource, (75

Dept. of Electronics And Communication Engineering

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15-01-2022offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	SHAIK SAMEERA SULTHANA	189X1A04D4	ECE	9154318716 sameerasulthana11@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: Dr. S. NAGARAJA RAO	Designation: Professor & Head of the Department				
e-mailid: drsnrao.ece@gprec.ac.in	Address: G. Pulla Reddy Engineering College, Kurnool-				
Ph.No:. 9440328621	518007				

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 10-03-2022 with a copy of this letter.

Professor in charge of

Internship/Placements

Yours Mncerely

Head of the Department

Dr. C. MACLARA J C. Million F. Troix Job Rurkool, TL C. Thanks

The Head Dept. of ECE GPREC.

Sir,

To

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from <u>Cognizant</u>

I, Vennapusa Naga Ramya, bearing Roll no: <u>189X1A04E2</u>, studying in the B.Tech -<u>VIII</u>

Semester-ECEhave got an opportunity to pursue full internship in the 8th semester at Cognizant Hyderabad. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).

Date: 03/03/2022

10 Manager HR, (15.

Dr.S.Nagaraja Rao

To

Professor & Head of the Department of ECE

G.Pulla Reddy Engineering College,Kurnool.

Dear Sir / Madam.

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 02/03/2022offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
01	Vennapusa Naga Ramya	189X1A04E2	ECE	9390057990 ramyareddy3994@gmail.com

Details of the Internal Supervisor/Project Guide:

Designation:Professor& Head of the Department
Address: Department of ECE,GPREC,Kurnool.

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

Internship schedule may be prepared and a copy of the same may be sent to us.

- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 05/03/2022(date) with a copy of this letter.

Professor In charge of

Internship/Placements

Yourssincerely Head of the Department Dr. S. NAGARAJARAO NUT THE R. P. L. NUSUL 14 Professor 2 11 21 - ECE Linemans] 6 Pulta Reday Contract Kuratuok, rescut (. A) India,

To The Head Dept. of ECE GPREC.

Sir,

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter from Cognizant Technology Solutions India Pvt. Ltd.

I, Mohammed Sayeed S, bearing Roll No. 189X1A04E3, studying in the B.Tech -8th Semester -ECE, have got an opportunity to pursue full internship in the 8th semester at Cognizant Technology Solutions India Pvt,Hyderabad. Please find enclosed the offer letter from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).

Date 10.0.1.2022

frim	10 -
Dr. S.Nagaraja Rao, MTech, Ph.D.	Vice - parmiet
Professor & Head of ECE Department	11. man Resouver
G. Pulla Reddy Engineering College, Kurnool.	Cognisant .

Dear Sir,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter March 05,2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	Mohammed Sayeed S	189X1A04E3	ECE	9381119458 shaikesayeed@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: B. SIVA REDDY	Designation:Assistant Professor
e-mail id: bsivareddy123@gmail.com	Address: : Dept of ECE
Ph.No:. 9652335848	G Pulla Reddy Engineering College, Kurnool

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 05 03 2022 with a copy of this letter.

Professor In charge of Internship/Placements

Yours shoareh Head of the Department Dr. S. NAGARAJ M Tes H MODE Proleman G. Pull di Ling 11 - 44 11-11 RU The line :

To The Head Dept. of ECE GPREC.

Sir,

Subject: Internship in the 8° Semester - Permission - Reputst - Rep Ref: Offer letter / small communication from _ Cognizant_

Semester - _ECE_ have got an opportunity to pursue full internship in the 8" semester at hence, request you to kindly grant me permission. company, I am very much interested in utilizing this opportunity to pursue internship and _Cognizant_ in Hyderabad . Please find endosed the offer letter/email communication from the 1, _Shalk Khalid Ahmed, bearing Roll No. _189X1A04F7_ studying in the B.Tech -_8th_

same. Also, I have the consent of my parent(s) in this regard I have read the following guidelines fully and I hereby undertake to strictly follow the

- Students will be permitted to go for internship in the final (8") semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the deportment
- The students shall strictly abide by the rules and regulations of the company and adhere to their
- code of conduct during the period of internship.
- periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be The college seeks feedback from the company on the performance and conduct of students dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendence during the internship period in the and the same must be promptly intimated by email to the Internal Supervisor (GPREC foculty) respective company. Under genuine reasons, they may seek leave from the company authorities



Date:10/03/2022

mi Head Of The Department

Vice-prestdent-Human Resource. Cognizant:

ECE

Dear Sir,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15-Jan-2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	Shaik Khalid Ahmed	189X1A04F7	ECE	8919387947, shaikkhalidahmed60@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: B.Siva Reddy	Designation: Assistant Professor
e-mail id:bsivareddy123@gmail.com	Address:G.Pulla Reddy College, G.Pulla Reddy Nagar, Nandyal
Ph.No:9652335848	Road, Kurnool-518007.

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 17-Feb-2022 with a copy of this letter.

Yours sincerely

In charge of

Professor Internship/Placements

Head of the Department Dr. S. MAGARAJAN M. TROTA THE MUSUE Professional Line and the G. Pulla Revent Treasure and Contest Commonstation RUSINGIA, STALLER, India,

To

The Head Dept. of ECE GPREC.

Sir,

Subject: Internship in the 8th Semester - Permission - Request - Reg. Ref: Offer letter / email communication from Cognizant Technology Solutions

I. <u>SUDIREDDY REVANTH REDDY</u>, bearing Roll No.<u>189X1A04G0</u> studying in the B.Tech Y<u>III</u> Semester - <u>ECE</u> have got an opportunity to pursue full internship in the 8th semester at <u>Cognizant Technology Solutions</u> in <u>Hyderabad</u>.Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

Guidelines for B.Tech students pursuing internship in the final semester

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official
 communication from any reputed company/organization, subject to the recommendation /
 approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students
 periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be
 dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).

÷.

Date: 07/03/2022

Vice-president Human Resource. Cognizant.

Department of ECE

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 1 5/01/2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
01	SUDIREDDY REVANTH REDDY	189X1A04G0	ECE	8340842506 revanthreddy398@gmail.com

Details of the Internal Supervisor/Project Guide:

Name:M.V.R Vittal	Designation: Associate Professor
e-mail id:vittalmvr.ece@gprec.ac.in	Address: Department of ECE
Ph.No:.9110383160	GPREC, Kurnool

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked ٠ by the Supervisor as frequently as possible.
- · Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 1 7/02/2022(date) with a copy of this letter.

Professor Incharge of Internship/Placements

Yourssincerely Head of the Repartment 12 mah . 1 . 1 . 1 E. MISUL Professor 211 all c 110E KURN ... - 9 NO97 Mille India.

The Head Dept. of ECE GPREC.

Sir,

To

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant Technology Solutions

I. <u>YELLAKANTI NIKHIL</u> bearing Roll No.<u>189X1A04H0</u> studying in the B.Tech <u>VIII</u> Semester – <u>ECE</u> have got an opportunity to pursue full internship in the 8th semester at <u>Cognizant</u> <u>Technology Solutions</u> in <u>Hyderabad</u>.Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).



Date: 04/03/2022

FTOTT) HOD

Department of ECE

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated <u>17/01/2022</u> offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
01	YELLAKANTI NIKHIL	189X1A04H0	ECE	9381053214 nikhilnik786786@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: T. Sarath Babu	Designation: Assistant Professor	
e-mail id: tsarath.ece@gprec.ac.in	Address: Department of ECE	
Ph.No:.9989252408	GPREC, Kurnool	

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on <u>18/02/2022</u>(date) with a copy of this letter.

Professor In charge of Internship/Placements

Yours sincerely Head of the Departmen

Dr. S. NAGARAJA RAO M.Tech., Ph.D., Mistel, Miso. Professor & Hend of ECE G. Pulla Reddy Engineering Cell - e(Autonomo...) KURNODL - S11007 - (A.P.) Hidia.

The vice president, Human Resource, CTS

Dr. S. Nagaraja Rao Dept. of Electronics and Communication Engineering GPREC.

Sir,

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant(CTS)

I, Katari Sri Shashank, bearing Roll No. 189X1A04H8, studying in the B.Tech -VIII Semester – ECE, have got an opportunity to pursue full internship in the 8th semester at *Cognizant(CTS)* in Hyderabad. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

Guidelines for B. Tech students pursuing internship in the final semester

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.

To

Date: 10-03-2022

From

The Head

Cognizant Technology Solutions

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 17th January 2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id	
1.	Katari Sri Shashank	189X1A04H8	ECE	6303187467 shashumax@gmail.com	7

Details of the Internal Supervisor/Project Guide:

Name: Sudheer Babu	Designation: Associate Professor				
e-mail id: sudheer.ece@gprec.ac.in	Address: Dept. of Electronics and Communication				
Ph.No: 7382639291	Engineering, GPREC.				

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- · Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student. ٠

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 05-03-2022 with a copy of this letter.

ofessor In charge of

Internship/Pladements

Yours sincerely Head of the permut JARAN M Tech., Ph.D., MISTE, Man

Professor & Head of ECE fG. Pulla Redm, 1. uninection: College (Autonomic KURNOGL - 513 207. (A.P.) India.

90 The Vice president, Human Resource,

The Head Dept. of ECE GPREC.

Sir,

To

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant

I, Y.Naveen Kumar Reddy, bearing Roll No. 189X1A04J0, studying in the B.Tech -8th Semester ECE, have got an opportunity to pursue full internship in the 8th semester at Cognizant in Hyderabad. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).

Relieving letter

Date:10-03-2022

To The vice president, thoman Resource, cfs.

Fron 1 Dr. S.Nagaraja Rao

Head Of the Department ECE

G PULLA REDDY ENGINEERING COLLEGE , KURNOOL

Dest Sit | Madam,

Sub- Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 18/02/2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
ſ	Y NAVEEN KUMAR REDDY	189X1A04J0	ECE	9177772707 ynaveenreddy4802@gmail.com

Details of the Internal Supervisor Project Guide:

Name: L.L.akshm: Prasanna kumar	Designation: Associate Professor
e-mail id lankek@gmail.com	Address: Department of ECE
Ph No. 9618762804	G.PULLA REDDY ENGINEERING COLLEGE

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 18-02-2022 with a copy of this

Professor In Charge of

Internship/Placements

its sincerely Head of the artment 100 G.F. 1 1 31 - Dengland 22

letter

To The Head Dept. of ECE GPREC.

Respected Sir,

Subject: Internship in the 8th Semester – Permission – Request - Reg. Ref: Offer letter / email communication from Cognizant (CTS)

I, CHENNUPATI THARUN SAI, bearing Roll No. 199X5A04J9, studying in the B.Tech -7th Semester – ECE, have got an opportunity to pursue full internship in the 8th semester at COGNIZANT in HYDERABAD. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).



Date: 415/2022

10

The HR.

COGNIZANT, Hyderabad.

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 15-01-2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	CHENNUPATI THARUN SAI	199X5A04J9	ECE	8247504653 tharunsai20193@gmail.com

Details of the Internal Supervisor/Project Guide:

Details of the internal super-	Designation: Professor & HoD
Name: Dr. S. NAGARAJA RAO	The second s
e-mail id: hodece@gprec.ac.in	Address: Department of ECE, G.Pullareddy Engineering College, Kurnool.
Ph.No: 9440328621	the following guidelines have been

This internship being an essential part of the curriculum, the followin prescribed. You are, therefore, requested to please share these guidelines with the concerned

Manager/Supervisor.

- Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Support
- Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date). Internship completion certificate shall be sent with the student.

Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your cooperation products cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain discipling down on 18-02-2022 with a copy proper discipline during their internship. The students will report to you on 18-02-2022 with a copy of this letter. of this letter.

Professor In charge of

Internship/Placements

1.4

Yours sincerely Head of the Department Dr. S. NAGARAJA RAO M. Tech., Ph.D., 1931C, MIEUI

Professor 3 Month of ECE G Pulla Red & English Mark To a Children work KURNOUL-2001 THIND HOP

To The Head Dept. of ECE GPREC.

Respected Sir,

Subject: Internship in the 8th Semester - Permission - Request - Reg. Ref: Offer letter / email communication from TECHIGAI

I, MIRRAPALLI SIVA CHANDRA bearing Roll No.189X1A0499 studying in the B.Tech -8th Semester – ECE have got an opportunity to pursue full internship in the 8th semester at TECHIGAI in HYDERABAD. Please find enclosed the offer letter/email communication from the company. I am very much interested in utilizing this opportunity to pursue internship and hence, request you to kindly grant me permission.

I have read the following guidelines fully and I hereby undertake to strictly follow the same. Also, I have the consent of my parent(s) in this regard.

- Students will be permitted to go for internship in the final (8th) semester, if the college gets official communication from any reputed company/organization, subject to the recommendation / approval of the Internship Monitoring and Evaluation Committee of the department.
- The students shall strictly abide by the rules and regulations of the company and adhere to their code of conduct during the period of internship.
- The college seeks feedback from the company on the performance and conduct of students
 periodically. Any act of indiscipline, if brought to the notice of the college by the company, will be
 dealt with seriously, which may include cancellation of the internship.
- The students shall bear all the expenditure for food / traveling / accommodation etc., during the internship. However, they may receive stipend if offered by the company.
- The students are expected to maintain 100% attendance during the internship period in the respective company. Under genuine reasons, they may seek leave from the company authorities and the same must be promptly intimated by email to the Internal Supervisor (GPREC faculty).

Date:03/03/2022

From

Dr. S. NAGARAJA RAO,

Professor & Head of the Department,

G Pulla Reddy Engineering college,

Kurnool.

Dear Sir / Madam,

Sub: Internship offer to the students - Relieving letter

Kindly refer to your letter/email dated 07/03/2022 offering internship to the following student(s). We thank you for giving our students this opportunity.

S.No	Name of the student	Roll No.	Branch	Ph.no. & e-mail id
1	M. Siva Chandra	189X1A0499	ECE	8008864712 sivamirrappalli@gmail.com

Details of the Internal Supervisor/Project Guide:

Name: Dr.D.R.Srinivas	Designation: Associate Professor
e-mail id: srinivasgprec@gmail.com Ph.No:. 9494555001	Address: Department of ECE, GPREC.

This internship being an essential part of the curriculum, the following guidelines have been prescribed. You are, therefore, requested to please share these guidelines with the concerned Manager/Supervisor.

- · Internship schedule may be prepared and a copy of the same may be sent to us.
- Each student is required to prepare Internship diary and report. The Internship diary may be checked by the Supervisor as frequently as possible.
- Evaluate the student's performance in the enclosed format and it shall be sent to the Internal Supervisor (whose details are given above) in a sealed envelope by post or by email on completion of the internship (before due date).
- Internship completion certificate shall be sent with the student.
- Your efforts in this regard will positively enhance knowledge and practical skills of the students. Your
 cooperation and help will be highly appreciated.

The students will abide by the rules and regulations of the organization and will maintain proper discipline during their internship. The students will report to you on 21/06/2022 with a copy of this letter.

Professor in charge of

Yours sincerely

Head of the Department Dr. S. NAGARAJA RAO M Texts (Ph.O., MIDIE, MISU Professor & Head of ECE G. Putta Ready Engineering Column (Contamous) KURNOOL - SIG (C.T. (A.G.) India.

The Managor HR Techigan