

भारत सरकार
इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय
राष्ट्रीय सूचना विज्ञान केन्द्र
मेघालय राज्य एकक
सचिवालय हिल, शिलांग- 793001
दूरभाष - 0364-2225501/2500846
ई-मेल: sio-megh@nic.in



Government of India
Ministry of Electronics &
Information Technology
NATIONAL INFORMATICS CENTRE
Meghalaya State Centre
NIC Building, Secretariat Hill, Shillong-793001
Phone- 0364-2225501/2500846
E-mail: sio-megh@nic.in

Dated: June 19, 2021

CERTIFICATE

To Whom It May Concern

This is to certify that the project work entitled “RTI Request & Appeal Management Information System (RTI-MIS)” carried out by Miss. Kaberi Handique, Roll No. CSM18004 for the partial fulfillment of the requirements for the degree of MCA (Master of Computer Application) to be awarded by the Department of Computer Science & Engineering, Tezpur University, Tezpur, Assam, India is a record of bona fide project work carried out at National Informatics Centre (NIC), Shillong, Meghalaya, India since February 2021 under my supervision and guidance.

Sincerely,

(Mr. Timothy Dkhar)
Deputy Director General &
State Informatics Officer,
NIC, Meghalaya

Timothy Dkhar
Deputy Director General
State Informatics Officer
National Informatics Centre
Meghalaya State
Government of India

भारत सरकार
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राष्ट्रीय सूचना विज्ञान केन्द्र
मेघालय राज्य एकक
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Phone- 0364-2225501/2500846
E-mail: sio-megh@nic.in

Dated: June 19, 2021

CERTIFICATE

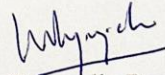
This is to certify that the project report entitled “**RTI Request & Appeal Management Information System**” submitted to the Department of Computer Science and Engineering, Tezpur University, in partial fulfillment for the award of the degree of Master of Computer Application (MCA), is a record of bona fide work carried out by **Kaberi Handique (CSM18004)** at **National Informatic Centre (NIC)** under my supervision and guidance.

All help received by them from various sources have been duly acknowledged.

No part of this report has been submitted elsewhere for award of any other degree.

Place: Shillong




Smt. Wanraplin Rynjah
Scientist –E/ Technical Director
Supervisor
Technical Director / तकनीकी निदेशक
Scientist “E” / वैज्ञानिक - “ई”
National Informatics Centre / राष्ट्रीय सूचना विज्ञान केन्द्र
Meghalaya State Centre, / मेघालय राज्य एकक,
Ministry of Electronics & Information Technology/
इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय
Government of India / भारत सरकार
Shillong - 793001, Meghalaya / शिलांग - 793001, मेघालय




DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY
TEZPUR 784028
ASSAM.

CERTIFICATE

This is to certify that the project report entitled “**IoT- Based Healthcare Simulation**” submitted by **Poonam Devi (CSM18005)** in partial fulfillment of requirements for the degree of **Master of Computer Application (MCA)** of Tezpur University has been examined.

Date:

Place: Tezpur



Digitally signed by Dr.
Nabajyoti Medhi
DN: C=IN, OU=CSE,
O=Tezpur University,
CN=Dr_ Nabajyoti Medhi,
E=nmedhi@tezu.ernet.in
Reason: I have reviewed
this document
Location: Tezpur
Date: 2021-06-22 14:33:43
Foxit Reader Version: 9.4.0

Dr. Nabajyoti Medhi

Assistant Professor, CSE

Project guide.



Department of Computer Science and Engineering
TEZPUR UNIVERSITY
Tezpur-784028, Assam, India

CERTIFICATE

This is to certify that the report entitled ***“Algorithm For Virtual Dress Trial”*** submitted to the **Department of Computer Science and Engineering**, Tezpur University in partial fulfilment for the award of the degree of Master of Computer Applications in **Department of Computer Science and Engineering**, is a record of project work carried out by **Jay Debnath (CSM18006)** and **Himangshu Das (CSM18014)** under my supervision during the period from January, 2021 to June, 2021. All support received by them from various sources have been duly acknowledged.

Date: 23/06/2021

Place: Tezpur

Dr. Arindam Karmakar
Assistant Professor
Department of CSE
Tezpur University



CERTIFICATE

This is to certify that the project work entitled “**Hosting of Online Crime Management System in Google Cloud Platform**” is a bonafide work carried out by **TUFAWAL AHMOD BARBHUIYA** bearing **Roll No: CSM18007** of MCA 6th semester Department of CSE, TEZPUR UNIVERSITY under my supervision and guidance.

Date: 11/06/2021

Place: Guwahati

Authorized Signatory

Mr. Ashraful Alom Mondal
Sr. Software Developer
Assam Technologies
Guwahati-781038
Assam

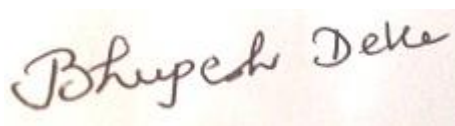
Date: 14th June, 2021

To Whom It May Concern

This letter is to certify that Mr. Arpan Roy, a student of MCA, Batch 2018-21, Tezpur University, is working with Xorai as a “Software Development Intern” since February ’2021 under my supervision and guidance.

The student has been participating in the project titled “Vehicle Inspection” and has demonstrated good programming and analytical skills so far.

Sincerely,



Bhupesh Deka
Head, IT Operations,
Bhubaneswar, India



ANTARES TECH

IN THE HEART OF THINGS



Terracode Systems Private Limited
IS-304, Fourth Floor, Tower # IS3
UTC Softech, Plot # 35, Block - B
Sector 132
NOIDA Gautam Buddha Nagar
UP 201305 IN



<http://www.antares-tech.com>



CIN U72900UP2018PTC107558

Date: 11th June 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Anuj Nath** of **MCA Batch (2018-21)**, **Tezpur University** has successfully completed his internship from **18th January 2021** to **11th June, 2021**.

The student participated in a live Antares project for a **telehealth startup** based in **Australia** as a **full-stack developer**. The student's contribution to the project fulfills all the stated criteria and has been completed to the satisfaction of Project Management.

Yours Sincerely,

Pritom Mathews

For **Antares Tech (Terracode Systems Private Limited)**

Manager, People & Processes



ANTARES TECH

IN THE HEART OF THINGS



Terracode Systems Private Limited
IS-304, Fourth Floor, Tower # IS3
UTC Softech, Plot # 35, Block - B
Sector 132
NOIDA Gautam Buddha Nagar
UP 201305 IN



<http://www.antares-tech.com>



CIN U72900UP2018PTC107558

Date: 11th June 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Binoy Singh** of **MCA Batch (2018-21)**, **Tezpur University** has successfully completed his internship from **18th January 2021** to **11th June, 2021**.

The student participated in a live Antares project for a leading **AV company** based in **USA** as a **full-stack developer**. The student's contribution to the project fulfills all the stated criteria and has been completed to the satisfaction of Project Management.

Yours Sincerely,

Pritom Mathews

For **Antares Tech (Terracode Systems Private Limited)**

Manager, People & Processes



Assam Power Distribution Company Limited

Bijulee Bhawan,
Paltan Bazar, Guwahati -781001,
Assam – India.
Website: www.apdcl.org

(APDCL Order No: MD/APDCL/TRN/188/2017/E/9 Order Date: 28/12/2020)

CERTIFICATE

This is to certify that Smti. Shivani Das, a 6th Semester MCA student of Tezpur University, Tezpur, has successfully completed her project work entitled “APDCL e-Tendering”, an online tendering portal for APDCL, at Bijulee Bhawan, Paltan Bazar, Assam, under my supervision from January, 2021 to May, 2021.

Her work has been prepared as partial fulfilment of the requirement for the degree of MCA, to be awarded by Tezpur University. The project work submitted here is the bona-fide work of the student. Her performance during work was found to be satisfactory.

During her project work at Bijulee Bhawan, she has displayed very sincere and consensus attitude towards work. I wish her success in all future endeavours.

Project Guide:

(Reza Mahmud)
DGM (Systems)
Bijulee Bhawan Paltan Bazar, Guwahati-1



Assam Power Distribution Company Ltd.

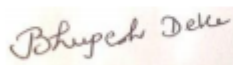
Date: 14th June, 2021

To Whom It May Concern

This letter is to certify that Mr. Arunav Das, a student of MCA, Batch 2018-21, Tezpur University, is working with Xorai as a "Software Development Intern" since February '2021 under my supervision and guidance.

The student has been participating in the project titled "Vehicle Inspection" and has demonstrated good programming and analytical skills so far.

Sincerely,



Bhupesh Deka
Head, IT Operations,
Bhubaneswar, India

भारत सरकार
इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय
राष्ट्रीय सूचना विज्ञान केन्द्र
मेघालय राज्य एकक
सचिवालय हिल, शिलांग- 793001
दूरभाष - 0364-2225501/2500846
ई-मेल: sio-megh@nic.in



Government of India
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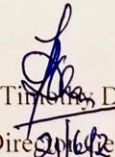
Dated: June 19, 2021

CERTIFICATE

To Whom It May Concern

This is to certify that the project work entitled “**RTI Request & Appeal Management Information System (RTI-MIS)**” carried out by **Miss. Parmela Dohling**, Roll No. **CSM18019** for the partial fulfillment of the requirements for the degree of **MCA (Master of Computer Application)** to be awarded by the **Department of Computer Science & Engineering, Tezpur University, Tezpur, Assam, India** is a record of bona fide project work carried out at **National Informatics Centre (NIC), Shillong, Meghalaya, India** since February 2021 under my supervision and guidance.

Sincerely,


(Mr. Timothy Dkhar)
Deputy Director General &
State Informatics Officer,

NIC, Meghalaya
Timothy Dkhar
Deputy Director General
State Informatics Officer
National Informatics Centre
Meghalaya State
Government of India

भारत सरकार
इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय
राष्ट्रीय सूचना विज्ञान केन्द्र
मेघालय राज्य एकक
सचिवालय हिल, शिलांग- 793001
दूरभाष - 0364-2225501/2500846
ई-मेल: sio-megh@nic.in



Government of India
Ministry of Electronics &
Information Technology
NATIONAL INFORMATICS CENTRE
Meghalaya State Centre
NIC Building, Secretariat Hill, Shillong-793001
Phone- 0364-2225501/2500846
E-mail: sio-megh@nic.in
Dated: June 19, 2021

CERTIFICATE

This is to certify that the project report entitled “**RTI Request & Appeal Management Information System**” submitted to the Department of Computer Science and Engineering, Tezpur University, in partial fulfillment for the award of the degree of Master of Computer Application (MCA), is a record of bona fide work carried out by **Parmela Dohling** (CSM18019) at **National Informatic Centre (NIC)** under my supervision and guidance.

All help received by them from various sources have been duly acknowledged.

No part of this report has been submitted elsewhere for award of any other degree.

Place: Shillong




Smt. Wanraplin Rynjah
Scientist –E/ Technical Director
Technical Director / तकनीकी निदेशक
Scientist “E” / वैज्ञानिक - “ई”
National Informatics Centre / राष्ट्रीय सूचना विज्ञान केंद्र
Meghalaya State Centre, / मेघालय राज्य एकक,
Ministry of Electronics & Information Technology/
इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय
Government of India / भारत सरकार
Shillong - 793001, Meghalaya / शिलांग - 793001, मेघालय

June 18, 2021

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Abhishek Sengupta (Roll No. CSM 18020)** a final year postgraduate student of the Department of Computer Science & Engineering, Tezpur University, Assam has successfully completed his project on “**Build migration from Maven to Gradle with Build Performance Analysis**” from January 18, 2021 to May 31, 2021 under the guidance of Abhijit Dutta, Senior Engineering Manager and Devayon Das, Software Architect .

During his Project period we found him sincere, hardworking, and having a good behavior and a moral character.

We wish him all success in his future endeavors.

For Zaloni Technologies India Pvt. Ltd.,



Pubali G. Borthakur
Director, People & Talent Operations



Abhijit Dutta
Senior Engineering Manager



Abhishek Sengupta

Mailing

Zaloni Technologies India Pvt. Ltd.
Nexia Park, Christian Basti
Guwahati- 781 005
CIN: U72200AS2007PTC008383, ☎ +91 361 2343500
www.zaloni.com

International Institute of Information Technology, Bhubaneswar

Imagine, Innovate, Inspire

(Promoted by Information Technology Department, Government of Orissa)



Date: June 21, 2021

This is to certify that, **MR. GAURAV BHUTANI** (Roll No. CSM18021) of the Department of Computer Science & Engineering, Tezpur University, has successfully completed a project titled as “**Image Classification using Deep Learning**” in partial fulfilment for the award of the degree of Master of Computer Application (MCA), under supervision of me (Dr. Surya Prakash Singh, Assistant Professor, IIIT Bhubaneswar).

The outputs of the project are considerable. The project has fulfilled all the conditions to the best of my knowledge.

No part of this report has been submitted elsewhere for award of any other degree.

Surya Prakash Singh

Dr. Surya Prakash Singh
Assistant Professor
IIIT Bhubaneswar, India

GLOBEGATE

Import Export Solutions

Dated: 20 June 2021

Ref: FL/INT-1002

Certificate of Internship

To Whomsoever it May Concern

This is to certify that Mr. Shiv Prasad, Roll no. CSM18023, a student of MCA (Master of computer applications), Department CSE of Tezpur University, Assam has successfully completed his internship at Globegate from 1st March, 2021 to 18th June, 2021 under guidance of Ms. Ekta Jaiswal.

During this tenure, he has worked on the project entitled "Hasthakatha" which is an e-commerce platform for selling handmade products.

For Globegate



.....
(Ms. Ekta Jaiswal)
Project Manager



.....
(Mr. Vikrant Jaiswal)
Director

Address : B-401, Sector-2, Plot-4, Dwarka, New Delhi-110075 (India)

M : +91 8826887392, E : jaiswal.vikrant@gmail.com

W : www.globegate.in

GLOBEGATE

Import Export Solutions

Dated: 20 June 2021

Ref: FL/INT-1001

Certificate of Internship

To Whomsoever it May Concern

This is to certify that Mr. Ashish Kumar Kushwaha, Roll no. CSM18024, a student of MCA (Master of computer applications), Department CSE of Tezpur University, Assam has successfully completed his internship at Globegate from 1st March, 2021 to 18th June, 2021 under guidance of Ms. Ekta Jaiswal.

During this tenure, he has worked on the project entitled "Hasthakatha" which is an e-commerce platform for selling handmade products.

For Globegate


.....
(Ms. Ekta Jaiswal)
Project Manager




.....
(Mr. Vikrant Jaiswal)
Director

Address : B-401, Sector-2, Plot-4, Dwarka, New Delhi-110075 (India)

M : +91 8826887392, E : jaiswal.vikrant@gmail.com

W : www.globegate.in

Date: 16th June, 2021

CERTIFICATE

To WHOMSOEVER It May Concern

This is to certify that the project work entitled "E-Commerce Website" based on Laravel Framework carried out by Mr. Rohit Rai, Roll No. CSM18025 for the partial fulfillment of the requirements for the degree of MCA (Master of Computer Application) to be awarded by Department of Computer Science & Engineering, Tezpur University, Tezpur, Assam, India is a record of bona fide project work carried out successfully at Inventics Software Pvt. Ltd., Bengaluru, India under the guidance of Mr. Sandeep Verma, Project Manager.

For Inventics Software Pvt. Ltd.



(Mr. Sandeep Verma)

Project Manager



01&02, No 189/1, Roopena Agrahara, Bommanahalli,
Bengaluru, Karnataka - 560068



+91 82 9988 6767
+91 99 1622 5399



DataGrokr Analytics Private Limited

Bel Air Drive, 5th Floor
Bellary Road, near Mekhri Circle
Dena Bank Colony, Ganganagar
Bangalore 560032
Contact: hello@datagrokr.com,
CIN: U72900KA2016FTC092831

To Whom it May Concern

This letter is to certify that Mr. Sumant Tiwari has been interning at DataGrokr Analytics Private Ltd from January 18th, 2021. His internship tenure is 6 months and he will be completing the internship on July 18th, 2021. Sumant has been working with our Full Stack Development Team and has been diligently involved with the projects and tasks assigned to him.

During the course of his internship, Sumant worked on the **RiskCheck Rewrite** Project. He has had overview training of all the technologies DataGrokr Works with, such as SQL, Python, GIT, Cloud Technologies, and Agile Development Practices.

Sumant has worked in a team and interacted with senior developers who found him earnest and coachable. He also did a great job learning new technologies and implementing solutions, as well as developing his communication and professional skills. We wish him all the best going forward.

Should you have any questions or concerns about this internship, please feel free to reach out to us.

Sincerely,

Rebekah Gainedi

HR Manager

Date: 15/6/2021

Date: 16th June, 2021

CERTIFICATE

To WHOMSOEVER It May Concern

This is to certify that the project work entitled "KnowDoubts" based on **Laravel Framework** carried out by **Mr. Sushant Prajapati**, Roll No. **CSM18029** for the partial fulfillment of the requirements for the degree of **MCA (Master of Computer Application)** to be awarded by **Department of Computer Science & Engineering, Tezpur University, Tezpur, Assam, India** is a record of bona fide project work carried out successfully at **Inventics Software Pvt. Ltd., Bengaluru, India** under the guidance of **Mr. Sandeep Verma**, Project Manager.

For Inventics Software Pvt. Ltd.



(Mr. Sandeep Verma)

Project Manager



01&02, No 189/1, Roopena Agrahara, Bommanahalli,
Bengaluru, Karnataka - 560068



+91 82 9988 6767
+91 99 1622 5399



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY
TEZPUR 784028
ASSAM

CERTIFICATE

This is to certify that the project report entitled ***Blockchain in Coffee Supply Chain***, submitted to the Department of Computer Science and Engineering, Tezpur University, in partial fulfillment for the award of the degree of **Master of Computer Application**, is a record of work carried out by **Naba Jyoti Gogoi, Roll No. CSM18030**, at **Tezpur University, Tezpur**.

No part of this report has been submitted elsewhere for award of any other degree.

Place: Tezpur
Date:

Nabajyoti Medhi

Digitally signed by Nabajyoti Medhi
DN: cn=, ou=CSE, o=Tezpur
University, cn=Nabajyoti Medhi,
E=medhi@tezu.ernet.in
Reason: I have reviewed this document
Location: Tezpur
Date: 2021.06.19 13:21:01
Foxit Reader Version: 9.4.0

Dr Nabajyoti Medhi
Assistant Professor
Tezpur University

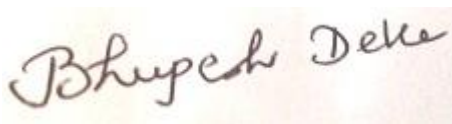
Date: 14th June, 2021

To Whom It May Concern

This letter is to certify that Mr. Bijoy Dutta, a student of MCA, Batch 2018-21, Tezpur University, is working with Xorai as a “Software Development Intern” since February ’2021 under my supervision and guidance.

The student has been participating in the project titled “Speech Aid App” and has demonstrated good programming and analytical skills so far.

Sincerely,



Bhupesh Deka
Head, IT Operations,
Bhubaneswar, India



CERTIFICATE

This is to certify that the project work entitled “**Hosting of file tracking system in Google Cloud Platform**” is a bonafide work carried out by **NACHIRUL HAQUE BARBHUIYA** bearing **Roll No: CSM18032** of MCA 6th semester Department of **CSE, TEZPUR UNIVERSITY** under my supervision and guidance.

Date: 11/06/2021

Place: Guwahati

Authorized Signatory

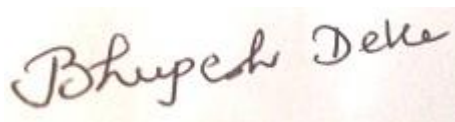
Mr. Ashraful Alom Mondal
Sr. Software Developer
Assam Technologies
Guwahati-781038
Assam

To Whom It May Concern

This letter is to certify that Mr. Pradyot Pratim Moran, a student of MCA, Batch 2018-21, Tezpur University, is working with Xorai as a “Software Development Intern” since February ’2021 under my supervision and guidance.

The student has been participating in the project titled “Speech Aid App” and has demonstrated good programming and analytical skills so far.

Sincerely,



Bhupesh Deka
Head, IT Operations
India.



DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING
TEZPUR UNIVERSITY
TEZPUR-784028
ASSAM

CERTIFICATE FROM INTERNAL GUIDE

This is to certify that the work presented in the report entitled “**ALUMNI WEB PORTAL OF CSE DEPARTMENT**” submitted in partial fulfillment of the requirement for the degree of **Master of Computer Application (MCA)**, was carried out by **Bikky Gohain (CSM18034)** and **Manash Protim Bora (CSM18036)** under my supervision. The work has not been submitted to any other institute for the award of any other degree or diploma.

Place: Tezpur
Date: 16 June 2021

Internal guide
Dr. Sarat Saharia
Professor
Dept. of Computer
Science and Engineering
TEZPUR UNIVERSITY

WEB INFOTECH

Convert business into brand....



SERVICE: WEBSITE DESIGNING / SOFTWARE DEVELOPMENT / MOBILE APPLICATION / DIGITAL MARKETING
GSTIN - 18AJNPN1183D1Z5

Date: 25th May 2021

CERTIFICATE
To Whom It May Concern

This is to certify that the project work entitled “**School Management System**” carried out by **Rimi das**, student of MCA 6th semester, Roll no. CSM18035 for the partial fulfilment of the requirements for the degree of **MCA** (Master of Computer Application) to be awarded by the **Department of Computer Science and Engineering, Tezpur University, Tezpur, Assam, India** is a record of bona fide project work carried out successfully at **Web Infotech** under the guidance of **Mr Pankaj Nath, Lead Software Developer, and Proprietor.**

WEB INFOTECH

Pankaj
Proprietor

Thanking You

PANKAJ NATH
PROPREITOR
WEB INFOTECH

WEB INFOTECH

9706868355 / 7086030335 Hengrabari, Guwahati Assam-781006

www.webinfotech.net.in



Date: 12/06/2021

TO WHOM IT MAY CONCERN

This is to certify that Nabujjal Nath, Roll no. CSM18038 has contributed to the project work entitled "Leave Management System" at Agiliti Techpartners LLP, under the guidance of the undersigned. His contribution to this project may be used towards the partial fulfilment of the requirements for the degree of MCA(Master of Computer Application) to be awarded by the Department of Computer Science and Engineering, Tezpur University, Assam, India. Nabujjal Nath has completed four months of internship with us, as on date.

For Agiliti Techpartners LLP

Harsha N Hegde

12/6/2021

Harsha N Hegde
Managing Partner





Jun 20, 2021

CERTIFICATE

To Whom It May Concern

This is to certify that the project work entitled “**Online Educational platform (Sharing knowledge and learning skills)**” carried out by **Gyanashree Malakar**, Roll No. **CSM18040** for the partial fulfillment of the requirement for the degree of **MCA(Master of Computer Application)** to be awarded by the **Department of Computer Science & Engineering, Tezpur University , Tezpur , Assam, India** is a record of bona fide project work carried out successfully at **Skaplink Technologies Pvt. Ltd, Guwahati-22, Assam** under the guidance of **Samaruzzaman**, Software Project Manager , **Mr. Pragyan Deep Gogoi**, Software Developer.

For **Skaplink Technologies Private Limited**

.....

(Samaruzzaman)

Software Project Manager

.....

(Mr. Pragyan Deep Gogoi)

Software Developer

For, SKAPLINK TECHNOLOGIES PVT LTD

SKAPLINK TECHNOLOGIES PVT. LTD.

DIRECTOR

Authorized Signatory

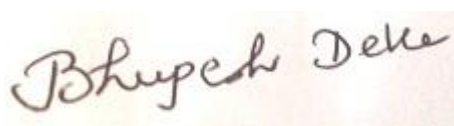
Date: 14th June, 2021

To Whom It May Concern

This letter is to certify that Mr. Partha Protim Borah, a student of MCA, Batch 2018-21, Tezpur University, is working with Xorai as a “Software Development Intern” since February ’2021 under my supervision and guidance.

The student has been participating in the project titled “Speech Aid App” and has demonstrated good programming and analytical skills so far.

Sincerely,



Bhupesh Deka
Head, IT Operations,
Bhubaneswar, India



TEZPUR UNIVERSITY

Certificate

This is to certify that the dissertation entitled *STUDENTS' GRADING SYSTEM BY FUZZY APPROACH*, submitted to the Department of Computer Science and Engineering, Tezpur University, in partial fulfillment for the award of the degree of Master of Technology in Information Technology, is a record of bonafide work carried out by Abhijit Gogoi, Roll No. CSI19001, under my supervision and guidance.

All help received by him from various sources have been duly acknowledged.

No part of this report has been submitted elsewhere for award of any other degree.

Dr. Bhogeswar Borah
Professor and Head
Department of CSE
Supervisor

Date: 23 June, 2021

Place: Tezpur



Department of Computer Science and Engineering

Tezpur University

CERTIFICATE

This is to certify that the dissertation entitled **“Developing cost effective KNN algorithm for real life datasets”** is submitted by **Angkit Sarma** bearing Roll no: **CSI19002**. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision of **Dr. Dhruba K Bhattacharyya**.

Date: 23 June, 2021

Place: Tezpur

Dr. Bhogeswar Borah
Professor and HOD
Department of CSE
Tezpur University



TEZPUR UNIVERSITY

Certificate

This is to certify that the dissertation entitled “**OPENFLOW ENABLED QOS PROVISIONING IN INTERNET OF MEDICAL THINGS NETWORK**” is submitted by Dilwar Hussain Barbhuiya bearing Roll no: CSI19005. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision of Dr. Nabajyoti Medhi.

Dr. Bhogeswar Borah
Professor and HOD
Department of CSE
Tezpur University, Assam

Date: 23/06/2021

Place: Tezpur



TEZPUR UNIVERSITY

Certificate of the HOD

This is to certify that the dissertation entitled “**Public Auditing Scheme for Private Dynamic Cloud Data**” is submitted by Shubham Pandey bearing Roll no: CSI19007. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision of Professor Dilip Kumar Saikia.

Date: 23 June, 2021

Place: Tezpur

Professor Bhogeswar Borah



TEZPUR UNIVERSITY

Certificate

This is to certify that the dissertation entitled “Matching Assisted Resource Allocation in IoT Networks” is submitted by Bibek Sutradhar bearing Roll no: CSI19008. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision of Dr. Sanjib K Deka, Associate Professor, Department of Computer Science & Engineering, Tezpur University.

Dr. Bhogeswar Borah
Professor and HOD
Department of CSE
Tezpur University, Assam

Date: 23 June, 2021

Place: Tezpur



TEZPUR UNIVERSITY

Certificate

This is to certify that the dissertation entitled “VIDEO SCENE PARSING USING DEEP LEARNING” is submitted by Punam Sarmah bearing Roll no: CSI19010. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. She has worked under the supervision of Dr. Shobhanjana Kalita.

Dr. Bhogeswar Borah
Professor and HOD
Department of CSE
Tezpur University, Assam

Date: 23 June, 2021

Place: Tezpur



TEZPUR UNIVERSITY

Certificate

This is to certify that the dissertation entitled Feature Selection Method In Rough Set Theory, submitted to the Department of Computer Science and Engineering, Tezpur University, in partial fulfillment for the award of the degree of **Master of Technology** in Information Technology and Engineering, is a record of bona fide work carried out by **Bijendar Kushwaha**, Roll No. CSI19011, under my supervision and guidance of **Dr. Swarnajyoti Patra**.

All help received by her from various sources have been duly acknowledged.

No part of this dissertation has been submitted elsewhere for the award of any other degree.

Signature of HoD

Dr. Bhogeswar Bora

Designation: Professor and Head

Department: CSE

Tezpur University

Date: 23 / 06 / 2021

Place: Tezpur



TEZPUR UNIVERSITY

Certificate

This is to certify that the dissertation entitled “PREDICTION OF STUDENTS’ PROCRASTINATION BEHAVIOUR USING DEEP LEARNING” is submitted by Ilina Sinha bearing Roll no: CSI19012. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision of Dr. Sarangthem Ibotombi Singh.

Dr. Bhogeswar Borah

Professor and HOD

Department of CSE

Tezpur University, Assam

Date: 23/06/2021

Place: Tezpur



Department of Computer Science and Engineering

Tezpur University

CERTIFICATE

This is to certify that the dissertation entitled “**Headline Generation from Assamese Broadcast News**” is submitted by **MUNTI DAS** bearing Roll no: **CSI19013**. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision of Assistant Professor Dr. Sanghamitra Nath

Date: 23 June, 2021

Place: Tezpur

Dr. Bhogeswar Borah

Professor and HOD

Department of CSE

Tezpur University



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE

This is to certify that the dissertation entitled “Spam Detection using Deep Learning” is submitted by **SIDDHARTHA BHUYAN** bearing Roll no: **CSI19014**. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision of Assistant Professor **L.B. SINGH**

Date: 23 June, 2021

Place: Tezpur

A handwritten signature in black ink, appearing to read 'Dr. Bhogeswar Borah'.

Dr. Bhogeswar Borah
Professor and HOD
Department of CSE
Tezpur University



DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING
TEZPUR UNIVERSITY
TEZPUR 784028
ASSAM

CERTIFICATE

This is to certify that the dissertation entitled “**Modelling the Process of Human Handwriting Using Generative Adversarial Networks**” is submitted by Syed Shahnawaj Sahil Imani bearing Roll no: CSI19016. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision of Dr. Utpal Sharma.

Date: 23 June, 2021

Place: Tezpur

Dr. Bhogeswar Borah
Professor and HOD
Department of CSE
Tezpur University



Tezpur University

Certificate

This is to certify that **shravan kumar singh** bearing **Enrolment No. CSI19017** has prepared the dissertation entitled *Discretizing data for pattern matching with overlap Interval*.

The dissertation is the result of his effort and endeavors. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology. He has worked under the supervision and guidance of **Dr. Bhabesh Nath**.

Date: 23./06./2021

Place: Tezpur

Signature of HoD

(Dr. Bhogeswar Borah)

Designation: Professor

Department: CSE

Tezpur University



TEZPUR UNIVERSITY

Certificate

This dissertation entitled “**Predictive Analysis On Blockchain Encrypted Data Using Blockchain Based Federated Learning System**”, submitted by Prokash Gogoi in partial fulfillment of requirements for the degree of Master of Technology in Information Technology University has been examined.

Date: 23 June, 2021

Place: Tezpur

Signature of HOD

Dr. Bhogeswar Borah,

Professor,

Department of CSE

Tezpur University

CERTIFICATE

This dissertation entitled “**Method To Reduce Covariate Factor In Gait Analysis For Human Identification**”, submitted by **Rishang Kumar Brahma** in partial fulfillment of requirements for the degree of **Master of Technology in Computer Science Engineering** University has been examined.

Date: 23 June, 2021

Place: Tezpur



Signature of HOD

Dr. Bhogeswar Borah,
Professor,
Department of CSE
Tezpur University



**DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY
TEZPUR 784028
ASSAM.**

CERTIFICATE

This is to certify that the dissertation entitled “**DENOISING MULTIMODAL MEDICAL IMAGES**” is submitted by **Dipti Deb** bearing Roll no: **CSE19002**. The dissertation is found worthy of acceptance for the award of Master of Technology in Computer Science. She has worked under the supervision of **Dr. Rosy Sarmah**.

Date: 23 June, 2021

Place: Tezpur

Dr Bhogeswar Borah
Professor and HOD
Department of CSE
Tezpur University

COMPUTER SCIENCE AND ENGINEERING
TEZPUR UNIVERSITY, TEZPUR
TEZPUR - 784028, INDIA



BONAFIDE CERTIFICATE

This is to certify that the project titled “5G COMMUNICATION WITH COGNITIVE RADIO NETWORK” is a bonafide record of the work done by **BIGRAI BASUMATARY (Roll No. CSE19004)** towards partial fulfilment of requirements for the award of degree of Master of Technology in Computer Science and Engineering of the **TEZPUR UNIVERSITY, TEZPUR**, during the year 2020-21.

Internal Examiner:.....

External Examiner:.....

A handwritten signature in black ink, appearing to read 'Dr. B. Bora', is positioned above the printed name.

Dr. Bhogeswar Bora
Professor & HoD
Dept. of CSE, TU
Date: 23 June, 2021



DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY

TEZPUR 784028
ASSAM.

CERTIFICATE

This is to certify that the dissertation entitled “**Dynamic Channel Allocation and Handling Handoff in Cellular Networks using Machine Learning**” is submitted by **Gaurav Sarma** bearing Rollno: CSE19005. The dissertation is found worthy of acceptance for the award of Master of Technology in Computer Science and Engineering. He has worked under the supervision of Dr. Nityananda Sarma.

A handwritten signature in black ink, appearing to read "B Borah".

Date: 23 June, 2021

Dr. Bhogeswar Borah
Professor and HOD
Department of CSE
Tezpur University



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE

This is to certify that the report entitled “ **Pariksha: the examination solution** ” is a bonafide record of projects done by Mohit Sharma(CSB17036) and Parashmoni Bora(CSB17001) and submitted in fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University. They are carrying out their project work under the supervision of **Dr. Debasish Das, System Analyst, Dept. of CSE , Tezpur University.**

This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted..

Date: 19 June, 2021

Place: Tezpur

Dr. Bhogeswar Borah

HoD

Department of Computer Science and Engineering
Tezpur University



JALDEE SOFT PRIVATE LIMITED

Experience Certificate

This is to certify that Mr Pushpak Jalan was working as an Intern in UI from 25th January 2021 to 15th June 2021 at Jaldee Soft Private Limited. His performance and conduct during this period was excellent.

We wish success in all his future endeavors.

Thrissur

15/06/2021

Remesh Kuruppath

(Managing Director)





JALDEE SOFT PRIVATE LIMITED

CERTIFICATE FROM EXTERNAL SUPERVISOR

This is to certify that the dissertation entitled "Jaldee, Avoid waiting in Queues!" submitted by Pushpak Jalan bearing Roll no.: CSB17002 is carried out by him under my supervision and guidance for partial fulfilment of the requirements and the regulations for the award of the degree of Bachelor of Technology in Computer Science and Engineering during the session 2017-2021 at Tezpur University. To the best of my knowledge, the matter embodied in the dissertation has not been submitted to any other university/institute for the award of any other degree or diploma.

Date: 19th June, 2021
Place: Thrissur, Kerala

(Mr. Krishnadas Sreedharan)
External Supervisor



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE BY THE HOD

This is to certify that the dissertation entitled “**Mutation in Covid-19 genomes**” is a bonafide record of the project work carried out by **Anupama Hazarika (CSB17003)** and **Md. Moin Almin (CSB17047)**. They have carried out the project work under the supervision of Dr. Siddhartha S. Satapathy during the period January 2020 – June 2021. This certificate signifies the acceptance of the report for the purpose it is submitted.

HoD, CSE

Date : 19 June, 2021

Place : Tezpur

Dr. Bhogeswar Borah

HoD, CSE

Tezpur University



**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING
TEZPUR UNIVERSITY**

CERTIFICATE

This is to certify that the report entitled “**Blockchain in the field of medical image sharing**” is submitted by **Himan Kalita** bearing **Roll no:CSB17004** and **Bidon Saha** bearing **Roll no:CSB17008** and. The report for their project work is found worthy of acceptance for the award of Bachelor of Technology in Computer Science Engineering. He has worked under the supervision of Dr. Dhruba K Bhattacharyya

Place: Tezpur

Date: 18.06.2021

Dr. Bhogeshwar Borah

Professor & HOD

Department of CSE

Tezpur University



**Department of Computer Science and Engineering
Tezpur University**

CERTIFICATE

This is to certify that the dissertation titled “**Design and Development of a Summarization System for Assamese Broadcast News**” is submitted by **Sandeep Deva Misra, Catherina Basumatary, Swarnav Das Barman** bearing Roll no: **CSB17005, CSB17033, CSB17077** respectively for partial fulfillment of the requirements and the regulations for the award of the degree of Bachelor of Technology in Computer Science & Engineering during the session 2017-2021 at Tezpur University. The report is found worthy of acceptance for the award of Bachelor of Technology in Computer Science and Engineering. They have worked under the supervision of Dr. Sanghamitra Nath.

Date: Tezpur University

Place: 19 June, 2021

Dr Bhogeswar Borah
Professor and Head
Department of Computer Science and Engineering
Tezpur University



Department of Computer Science and Engineering
Tezpur University

Dr. Bhogeswar Borah,
Head of the Department

Phone:03712-275355
E-mail: bgb@tezu.ernet.in

CERTIFICATE BY THE HOD

This is to certify that the report entitled “*Text correction tool that employs various heuristics to improve the linguistic quality of a given input text*” is a Bonafide record of project work carried out by **Ananya Deka (CSB17011)**, **Runanka Roy (CSB17019)** and **Bishal Deb (CSB17076)** and submitted in partial fulfilment for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University during the session 2017-2021. They have carried out the project work under Dr. Utpal Sharma. This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted.

Date : 19 June, 2021

Place : Tezpur

Dr. Bhogeswar Borah
(HOD, Computer Science and Engineering)



Department Of Computer Science And Engineering Tezpur University

CERTIFICATE

This is to certify that the dissertation titled “ **Over Speeding Vehicle Detection System**” is submitted by **Aditya Goswami** bearing Roll no: **CSB17013**, **Raju Sarkar** bearing Roll no: **CSB17028** and **Biswajit Bharali** bearing Roll no: **CSB17043** for partial fulfillment of the requirements and the regulations for the award of the degree of Bachelor of Technology in Computer Science & Engineering during the session 2017-2021 at Tezpur University. The report is found worthy of acceptance for the award of Bachelor of Technology in Computer Science and Engineering. They have worked under the supervision of **Dr. Sanghamitra Nath**.

Date: 19 June, 2021
Place: Tezpur University

Engineering

A handwritten signature in black ink, appearing to read "B. Borah".

Dr. Bhogeswar Borah
Professor And HOD
Department Of Computer Science &

Tezpur University



Department of Computer Science and Engineering Tezpur University

Dr. Bhogeswar Borah
Head of the Department

Phone: 03712-275355
Email: bgb@tezu.ernet.in

Certificate

This is to certify that the report entitled “Detection of VSI-DDoS Attack using Attention Models in Mobile Edge Clouds” is a bonafide record of project work carried out by students whose names are given below and submitted in partial fulfilment for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University during the period from January 2021 to June 2021. He has carried out his project work under Dr. Nityananda Sarma. This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted.

| Roll No | Names of Students |
|---------|-------------------|
|---------|-------------------|

| | |
|----------|-----------------|
| CSB17016 | Adil Bin Bhutto |
|----------|-----------------|

Dr. Bhogeswar Borah
(HOD, Computer Science and Engineering)

Date: 19 June, 2021.....

Place: Tezpur



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE

This is to certify that the report entitled “**Annotations of Multimedia Files**” is a bonafide record of project work carried out by **Deepankar Acharyya** bearing Roll No. : **CSB17017** and submitted in partial fulfilment of the requirements and the regulations for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University during the session 2017-2021 at Tezpur University. He has carried out his project work under the supervision of Dr. Utpal Sharma. This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted.

Date : 19 June, 2021

Place : Tezpur

Dr. Bhogeswar Borah

(HOD, Computer Science and Engineering)

Name: Samudra Deka

Email: samudra@techVariable.com

Designation: Senior Programmer Analyst

Phone: 8638187156

CERTIFICATE

This is to certify that the dissertation entitled "**Veract, A virtual meeting platform**" submitted by **Raju Kumar Singh** bearing Roll no: **CSB17022** is carried out by him under my supervision and guidance for partial fulfilment of the requirements and the regulations for the award of the degree of Bachelor of Technology in Computer Science and Engineering during the session 2017-2021 at Tezpur University. To the best of my knowledge, the matter embodied in the dissertation has not been submitted to any other university/ institute for the award of any other Degree or Diploma.

Date: June 18th, 2021

Place: Guwahati, Assam



(Mr. Samudra Deka)

External Supervisor



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE BY HEAD OF DEPARTMENT

This dissertation titled “**Dynamic Intrusion Detection System (IDS) for Software Defined Networking (SDN)**” submitted by Mousumi Roy Boruah (CSB17024) and Dhiraj Saharia (CSB17026) in partial fulfilment of the requirements for the major project of Bachelor of Technology in Computer Science and Engineering. The report is found worthy of acceptance for the award of Bachelor of Technology in Computer Science and Engineering. They have worked under the supervision of Dr. Nityananda Sarma.

Signature

Date: 19 June, 2021

Place: Tezpur



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
TEZPUR UNIVERSITY
Tezpur-784028, Assam, India**

Dr. Bhogeswar Borah
Head of the Department

Phone: 03712-275356
Email: bgb@tezu.ernet.in

CERTIFICATE

This is to certify that the report entitled **An effective classification technique for drone imagery to support surveillance** is a bonafide record of project work carried out by **Kishan Kumar Rabha (CSB17027)** , **Niraj Chetia (CSB17037)** , **Akash Antal (CSB17049)** and submitted in partial fulfilment for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University during the period from January 2021 to June 2021. They have carried out their project work under the supervision of **Dr. Dhruba K Bhattacharyya, Professor and Pro Vice - Chancellor, Department of CSE Tezpur University.**

This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted.

Date: 19 June, 2021
Place: Tezpur

(Dr. Bhogeswar. Borah)
Head of the Department, CSE



Department Of Computer Science and Engineering

Tezpur University

CERTIFICATE

This is to certified that the project entitled “**RECOMMENDATION SYSTEM USING DEEP LEARNING**” is a bonafied work of **Udhav Das (CSB17030)** submitted to the **Tezpur University** in partial fulfilment of the requirement for the award of the degree of **Bachelor of Technology in Computer Science and Engineering** .

Date: 19 June, 2021

Place: Tezpur

Dr. Bhogeswar Borah

Professor and Head

Computer Science and Engineering



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE BY THE HEAD OF DEPARTMENT

This dissertation titled “Tier 1 ISP Setup with MPLS and Internet Gateway Services” submitted by Arup Kar (CSB17031), Rishabh Trivedi (CSB17063) and Masood Rahman (CSB17070) in partial fulfillment of the requirements for the major project of Bachelor of Technology in Computer Science and Engineering has been approved. To the best of my knowledge, the matter embodied in the dissertation has not been submitted to any other university/institute for the award of any Degree or Diploma.

Date: 19 June, 2021
Bhogeswar Borah

Place: Tezpur
Department

Prof.

Head of the

INTERNSHIP CERTIFICATE



This is to certify that **Rishabh Trivedi** has worked on a project titled “Design and Implementation of an ISP with a MPLS backbone” from 1st Jan’ 2021 - 31st May’2021. The project was done as a simulated environment using “Cisco Packet Tracer” to implement MPLS in an ISP’s backbone.

During the internship, he demonstrated good communication skills with a self-motivated attitude to learn new things.

His performance as an intern was great and he completed the project successfully on time.

We wish him all the best for his future endeavors.

With Regards

(BHASKAR BARUAH)
DIRECTOR

INTERNSHIP CERTIFICATE



This is to certify that **Masood Rahman** has worked on a project titled “Design and Implementation of an ISP with a MPLS backbone” from 1st Jan’ 2021 - 31st May’2021. The project was done as a simulated environment using “Cisco Packet Tracer” to implement MPLS in an ISP’s backbone.

During the internship, he demonstrated good communication skills with a self-motivated attitude to learn new things.

His performance as an intern was great and he completed the project successfully on time.

We wish him all the best for his future endeavors.

With Regards

(BHASKAR BARUAH)
DIRECTOR

INTERNSHIP CERTIFICATE



This is to certify that **Arup Kar** has worked on a project titled “Design and Implementation of an ISP with a MPLS backbone” from 1st Jan’ 2021 - 31st May’2021. The project was done as a simulated environment using “Cisco Packet Tracer” to implement MPLS in an ISP’s backbone.

During the internship, he demonstrated good communication skills with a self-motivated attitude to learn new things.

His performance as an intern was great and he completed the project successfully on time.

We wish him all the best for his future endeavors.

With Regards

(BHASKAR BARUAH)
DIRECTOR



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE

This is to certify that the report **Development of an OCR to detect Handwriting** is submitted by **Dipesh Das** bearing Roll no: **CSB17034** and **Swapa Gamshhen Tamang** bearing Roll no: **CSB17061** and **Purbajit Das** bearing Roll no. **CSB17075** is carried out by them for the project done under my supervision and guidance for partial fulfillment of the requirements and the regulations for the award of the degree of Bachelor of Technology in Computer Science Engineering at Tezpur University. To the best of my knowledge, the matter embodied in the report has not been submitted to any other university/institute for the award of any Degree or Diploma.

Date: 19 June, 2021

Place: Tezpur

Dr. Bhogeshwor Borah

Head of Department

Department of CSE

Tezpur University



Department of Computer Science and Engineering Tezpur University

Dr. Bhogeswar Borah
Head of the Department

Phone: 03712-275355
Email: bgb@tezu.ernet.in

HOD Certificate

This is to certify that the report entitled “Computer Vision Application in AR Glasses” is a bonafide record of project work carried out by Parikshit Saikia (CSB17035) and submitted in partial fulfilment for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University during the period from January 2021 to June 2021. He has carried out his project work under Dr. Arindam Karmakar. This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted.

Date: 19 June, 2021
Place: Tezpur

Dr. Bhogeswar Borah
(HOD, Computer Science and Engineering)



Department of Computer Science and Engineering

Tezpur University

CERTIFICATE BY THE HOD

This is to certify that the dissertation titled “**Machine Learning In Cancer Biomarker Identification**” is submitted by **Bhaskar Jyoti Singha** bearing Roll No: **CSB17038** is carried out by him under the supervision and guidance of Dr. Rosy Sarmah, Assistant Professor, Department of Computer Science & Engineering, Tezpur University, for the partial fulfilment of the requirements of Bachelor of Technology in Computer Science & Engineering during the session 2017-2021 at Tezpur University.

This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted..

Date: 19 June, 2021

Place: Tezpur

Dr. Bhogeswar Borah

HoD

Department of Computer Science and Engineering

Tezpur University



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE BY HEAD OF THE DEPARTMENT

This is to certify that the project entitled “ **Routing Implementation based on Processing Delay and Bandwidth in Software Defined Networking** ” submitted by Mandeep Kumar Singh (CSB17039), Gaurav Kumar (CSB17051), Samir Sujana (CSB17067). The report is found worthy of acceptance for the award of Bachelor of Technology in Computer Science and Engineering. He has worked under the supervision of Dr. Sanjib K Deka.

P. Baruah

Date: 19 June, 2021
HOD, CSE



Department of Computer Science and Engineering

Tezpur University

This is to certify that the report entitled **Restaurant Management System** is a bonafide record of project done by **Reshma Sultana Ahmed (CSB17040)** and submitted in fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University. They are carrying out their project work under the supervision of **Dr. Sarat Saharia, Associate Professor, Dept. of CSE, Tezpur University.**

This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted.

Date: 19 June, 2021

Place: Tezpur

Tezpur University


Dr. Bhogeswar Borah


H.O.D of CSE

INTERNSHIP CERTIFICATE



Crave for Local

▶  support@craveforlocal.com

▶  www.craveforlocal.com

19 JUNE, 2021

TO WHOM IT MAY CONCERN

This is to certify that **Nilam Kumar Pathak**, student of Tezpur University, Assam, has successfully completed his Internship from 15/01/2021 to 19/06/21 in Technical Development Department as a **Full Stack Development Intern**.

During his internship, he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project target on time.

We wish him all the best for his upcoming future.

Regards,

A handwritten signature in black ink, appearing to read 'Triambak Karol', with a flourish at the end.

Triambak Karol

Human Resource Department



Department of Computer Science and Engineering
Tezpur University

CERTIFICATE

This is to certify that the report entitled “**Website Chatbot system**” is a bonafide record of projects done by Ashish kumar deo(CSB17048) and Snigdha Shourya(CSB17058) and submitted in fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University. They are carrying out their project work under the supervision of **Dr. Sarat Saharia, Professor, Dept. of CSE , Tezpur University.**

This certification does not necessarily endorse or accept every statement made, opinion expressed or conclusion drawn as recorded in the report. It only signifies the acceptance of this report for the purpose for which it is submitted..

Dr. Bogeshwar Borah

Date: 19 June, 2021

Place: Tezpur

Head of Department of Computer

Science and Engineering, Tezpur university



Department of Computer Science and Engineering

Tezpur University

CERTIFICATE

This is to certify that the dissertation entitled “**QoS Provisioning for Delay Sensitive Applications in Named Data Networking**” is submitted by **Prajwal Singh** bearing Roll no: **CSB17053**, **Saurabh Kannaujia** bearing Roll no: **CSB17055**, and **Rajneesh Kumar** bearing Roll no: **CSB17060**. The report is found worthy of acceptance for the award of Bachelor of Technology in Computer Science and Engineering. They have worked under the supervision of **Dr. Nityananda Sarma**.

Date: Tezpur

Place: 19 June, 2021

Dr. Bhogeshwar Borah
Professor and HOD
Department of Computer
Science and Engineering
Tezpur University



Computer Science and Engineering Tezpur University

CERTIFICATE BY HEAD OF DEPARTMENT

This dissertation titled “**Topological Analysis of Gene-Gene network**” is submitted by **Adarsh Kumar** (Roll no: **CSB17057**) and **Prakash Bhusal** (Roll no: **CSB17071**) in partial fulfillment of the requirements for the major project of Bachelor of Technology in Computer Science and Engineering has been examined.

Date: 19 June, 2021

Place: Tezpur

Dr. Bhogeshwar Borah

Professor and HOD

Department of Computer Science and Engineering
Tezpur University



Department of Computer Science and Engineering

Tezpur University

CERTIFICATE

This is to certify that the project report entitled “**Speech Transcription and dictation system for hindi language** ” is submitted by **AJAY KUMAR** bearing Roll no: **CSB15057**, **MRITYUNJAY KUMAR** bearing Roll no: **CSB17062**, and **AMARJEET KUMAR** bearing Roll no: **CSB17066**. The report is found worthy of acceptance for the award of Bachelor of Technology in Computer Science and Engineering. They have worked under the supervision of Dr.Utpal sharma.

Date: 19 June, 2021

Place: Tezpur

Dr. Bhogeshwar Borah
Professor and head
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