

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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Phone- 0364-2225501/2500846
E-mail: sio-megh@nic.in

Dated: June 19, 2021

CERTIFICATE

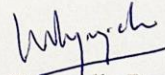
This is to certify that the project report entitled “**RTI Request & Appeal Management Information System**” submitted to the Department of Computer Science and Engineering, Tezpur University, in partial fulfillment for the award of the degree of Master of Computer Application (MCA), is a record of bona 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

Technical Director / तत्कालीन 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

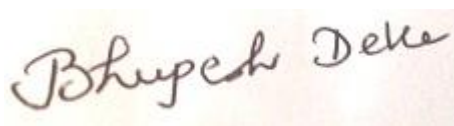
Date: 14th June, 2021

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.

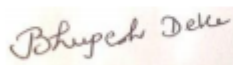
Date: 14th June, 2021

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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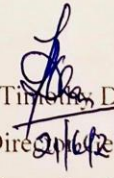
Dated: June 19, 2021

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

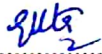
Certificate of Internship

To Whomsoever it May Concern

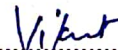
This is to certify that Mr. Ashish Kumar Kushwaha, Roll no. CSM18024, a student of MCA (Master of computer applications), Department CSE of Tezpur University, Assam has successfully completed his internship at Globegate from 1st March, 2021 to 18th June, 2021 under guidance of Ms. Ekta Jaiswal.

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

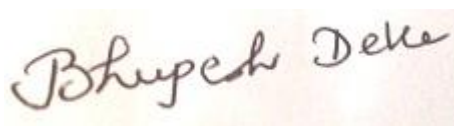
Date: 14th June, 2021

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

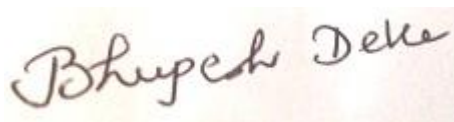
Mr. Ashraful Alom Mondal
Sr. Software Developer
Assam Technologies
Guwahati-781038
Assam

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

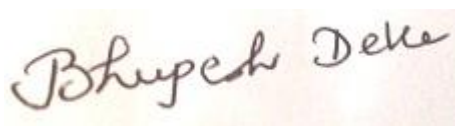
Date: 14th June, 2021

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 **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 "Bhogeswar Bora".

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

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

Dr. Bhogeswar Borah

Place : Tezpur

(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..

Date: 19 June, 2021

Place: Tezpur

Dr. Bogeshwar Borah

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
Department of CSE,
Tezpur University

Name: Nayanjeet Saikia
Job Title: Intern, Software Engineering

On behalf of the Company, we are pleased to appoint you as an **Intern, Software Engineering** on the following terms and conditions: -

1. Emoluments and Benefits:

Your salary and benefit plan is as detailed in Annexure 1. Details of the employee benefit plans as in force from time to time can be found on the intranet and are subject to the rules of the relevant scheme as amended by the Company from time to time. All payments made pursuant to this agreement or any bonus plan or otherwise will be subject to the deduction of tax at source as applicable.

2. Work Location and Work Timings:

Generally, your place of work will be Pune. You may be required to work in other offices and locations from time to time. In addition, you may be required to work on the premises of any of the Company's or Group Companies' customers, suppliers, clients, or associates whether in India or abroad. The Company reserves the right to transfer your services to any other location anywhere in the world. However, given the covid 19 scenario in India, until otherwise inform, you will work from your current location.

The Company's normal working hours shall typically comprise of nine (9) hours per day, exclusive of any applicable break, subject to the limit of daily working hours, as prescribed by the applicable laws. The Company may require you to work for extended working hours/days including weekends, depending on the project requirements, business exigencies and/or for conscientious and complete performance of your duties and responsibilities towards the Company, subject to the limit of working hours as prescribed by the applicable laws. Any changes made to the Company's working hours shall be communicated to you.

3. Date of Joining:

Your expected date of joining is **15th September 2021**. If you are unable to join by this date, please contact your Brainayan recruiter immediately.

4. Duties and Responsibilities:

You shall perform the duties and responsibilities as set by the Company and that are consistent with your position within the Company. You must act in the best interests of the Company, service faithfully and diligently and comply with all legal requirements of the Company, applicable to you and all lawful directions issued to you by the Company from time to time. If you work for the Company full time, you agree that you shall not at any time during the term of this Agreement, without the prior written consent of the Company, be engaged, employed, concerned or interested, directly or indirectly, in any other employment, business or occupation that may conflict with your duties to the Company.

5. Confidentiality:

You are required to maintain total confidentiality as regards the contents of this Agreement and you should not disclose the same to anybody. As a condition of employment at the Company, you will

R. B. Bhooshan
10/10/21 2022
Head
Department of Computer Science & Engg.
Tatyasaheb Kore University

be expected to sign the Confidentiality and Intellectual Property Agreement which forms part of your contract of employment with the Company. The Company has appointed you based upon your background, experience, general skills and abilities and not because of your knowledge of your current employer's or any previous employer's trade secrets or other company specific information. In this regard, you should also be extremely careful not to bring to the Company any documents or other materials in tangible form belonging to or acquired from any current or prior employer.

6. Previous Employment:

If you are employed, you are expected to join the Company only after your present employer formally relieves you. You are required to submit the relieving letter from your present employer to the Company. The Company will not be liable for any consequences arising out of any of your previous employments. You hereby agree that you are not subject to any terms or conditions (whether contractual or otherwise) which restrict or may restrict your ability to carry out your duties for the Company or any Group Company.

7. Background Check:

As a policy, the Company conducts a background check of all new employees. This appointment is contingent upon the Company receiving satisfactory results from the background check, which shall include without limitation - interviewing past and current employers and verifying education transcripts. For business requirements, you may also be required to undergo a criminal check. The Company shall have the right to terminate your services without notice or payment in lieu of notice, if the information provided by you at the time of interview or as part of your application or resume is found to be false or misrepresented. As part of our joining procedure, you will be required to provide details of criminal proceedings, if any have been initiated against you prior to joining the Company. If there are none, you will be required to provide a written declaration stating so.

8. Working Days, Holidays and Leave:

Your working hours will be 45 per week Monday through Friday, although you may be required to work at such other times as may be necessary for the proper performance of your duties. Your daily working hours, holidays and leave shall be as per the Company policy as amended from time to time.

9. Notice of Termination:

- a. You will be required to give at least 30 days written notice of termination to the Company. The Company reserves the right to relieve you only at the end of the 30-day notice period. If you are relieved of your duties before the expiration of your notice period, the Company will be entitled to recover from you as 'salary in lieu of notice', an amount equivalent to the shortfall in notice period and/or to deduct such an amount from any amounts which may be payable to you by the Company.
- b. The Company, at its sole discretion, shall be entitled to terminate your employment by giving you either one month's notice in writing or one month's salary in lieu thereof.
- c. During any period of notice you may be required by the Company, in its absolute discretion not to contact its employees, customers or suppliers, not to attend at your place of work at any time and not to perform any duties for the Company or to perform only such duties, specific projects or tasks as are assigned to you expressly by the Company, for such period and at such place or places (including, without limitation, your home) as the Company deems appropriate, provided that you will be entitled to receive full pay and benefits (excluding any bonus or commission payments) during such period. For the avoidance of doubt, you will remain the Company's employee during any such period and may not carry out any work for any third party.
- d. The Company reserves the right to terminate your contract without notice, or pay in lieu of notice, if, after a reasonable investigation, it has reasonable grounds to believe you are guilty of serious misconduct.

R. B. B. B.
10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University

10.Restrictive Covenant:

During the term of your employment and for six months thereafter, you will not directly or indirectly solicit, deal with or contact the current or potential customers of the Company.

11.Retirement Age:

You shall retire from the services of the company on attaining the age of 65 years on the basis of the age submitted by you on the Company Records.

12.Group or Group Company:

For the purposes of this Agreement, the "Group" or "Group Company" means the Company, Brainayan, any subsidiary of the Company or Brainayan, any holding company of the Company or Brainayan and any subsidiary of such a holding company. The expressions "subsidiary" and "holding company" shall have the meanings given to them by section 4 of the Companies Act 1956.

13.Applicable Law:

This Agreement shall be governed by and construed in accordance with Indian Law and the parties submit to the non-exclusive jurisdiction of the Courts in Pune, Maharashtra, India.

14.Severability:

The various provisions and sub-provisions of this Agreement and its Annexes are severable and if any provision or identifiable part thereof is held to be unenforceable by any court of competent jurisdiction, then such unenforceability shall not affect the enforceability of the remaining provisions or identifiable parts thereof in this Agreement or its Annexes.

15.Entire Agreement:

This Agreement, the Confidentiality and Intellectual Property Agreement and the Code of Conduct constitute the entire agreement between the parties about its subject matter. Nothing in this Agreement shall operate to exclude or limit any liability for fraud.

16.Validity of this Letter:

Please communicate your acceptance of this appointment and the associated terms and conditions within five days from the date of issue of this letter after which time this offer will lapse. If you agree to the foregoing terms and conditions of employment with the Company, please indicate your acceptance by signing the acknowledgement below, the Confidentiality and Intellectual Property Agreement, Data Privacy Authorization and Code of Conduct.

17.Confidentiality:

You agree, as part of your employment hereunder, you will have access, directly or indirectly, to certain Confidential Information of the Company and its affiliates and their employees, contractors and/or clients. At any time during the term of your employment, you agree to execute non-disclosure or similar agreements required by the Company and its affiliates and their employees, contractors and/or clients with respect to such Confidential Information. During the term of your employment and thereafter, you shall:(a) hold the Confidential Information in the strictest confidence; (b) not disclose or use or attempt to use or disclose the Confidential Information, except as expressly permitted by the Company and solely for the purpose of which such Confidential Information was disclosed to you;(c) not disclose or divulge the Confidential Information to or for the benefit any third person or entity without the prior authorization of the Company; (d) give prompt notice to Company of any actual or attempted unauthorised use or disclosure of the Confidential Information; and (e) return the Confidential Information, including any copies or reproductions, at Company request or upon termination of your employment. Your obligations under this Section shall remain in effect and survive any termination or expiration of your employment or these Terms of Employment. Company shall be entitled to immediate injunctive relief, claim damages (liquidated or unliquidated) or similar relief and/or take disciplinary

R. B. Bhat
10/02/2022
Head
Department of Computer Science & Engg.
Tatyasaheb Kore University

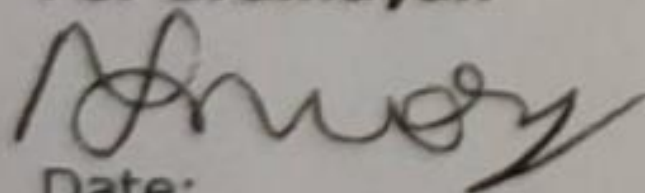
action (including but not limiting to termination) upon a potential or actual breach of this Section by you, including in the event where you take up or attempt to take up employment with or act or attempt to act as consultant or contractor to, any person, who may be a competitor of Company, or take up or attempt to take up employment or contract with any person in a manner that may result in disclosure or misuse of Confidential Information. Company's right under this clause is notwithstanding any other right available to the Company under these Terms of Employment or otherwise.

18. Intellectual Property:

You agree that any rights, title and interest whatsoever, including, but not limited to, patents, copyright, trade secret and design rights, mask rights, whether registerable or not, arising or created as a result of the development of and/or the application of any tangible or intangible work product or materials produced by you during or as a consequence of your employment, whether alone or in conjunction with others and whether during normal working hours or not, including, but not limited to, any invention, design, discovery, improvement, computer program, documentation, or other material which you conceive, discover or create during or in consequence of employment hereunder ("Work Product") shall belong exclusively to the Company. You hereby convey ownership in such rights, title and interest to the Company and its affiliates upon inception or development. You retain no rights to use the Work Product and agree not to challenge the validity of Company's and its affiliates' ownership in the Work Product. You hereby forever waive all moral rights in the Work Product and any results or proceeds there from, even if after expiration or termination of your employment hereunder. If you have any rights to the Work Product that cannot be assigned to Brainayan or its affiliates, you hereby unconditionally and irrevocably waive the enforcement of such rights and all claims and causes of action of any kind against Brainayan and its affiliates and their employees, contractors or clients with respect to such rights and grant to Brainayan and its affiliates an exclusive, irrevocable, perpetual, worldwide, sublicensable, fully paid-up and royalty free license to such Work Product, or part thereof. On termination or expiration of your employment or these Terms of Employment, you will deliver to Company all Work Product, including any parts or copies thereof completed, created and/or prepared up through the date of termination and all copies thereof. You agree to, for no further consideration, execute any documents and take any other actions reasonably requested by Company and its affiliates and their clients and contractors to achieve the objectives of this Section (including waiver of any such rights including authors' special rights under Section 57 of the Copyright Act 1957).

I have read, understood and agree to the terms and conditions as set forth in these Terms of Employment. My acceptance is as of the day and year written below.

For Brainayan



Date:

Nitin More

CEO

Brainayan

D 606, Solitaire

Dhanori - Lohagaon Road

Pune - 411015

Maharashtra, India

For employee

Nayanjeet Saikia

Date: 13/09/2021

Name: Nayanjeet Saikia

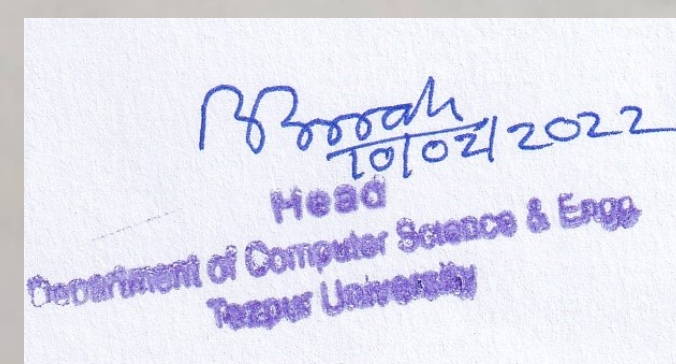
Address:

Sejipute, District - Dibrugarh

PIN - 786001

State - Assam

DECLARATION



R. Boruah
10/09/2022
Head
Department of Computer Science & Engg
Tezpur University

I hereby represent and warrant that as of my effective start date of employment with Brainayan, I will have: (a) terminated my employment with any current/previous employer and any other employment or contractor relationships; and (b) satisfactorily performed and completed all my obligations which apply/applied to me vis-a-vis any current/previous employer and any other employment or contractor relationships.

I hereby represent and warrant that I have not, during the course of any current/previous employer and any other employment or contractor relationships, entered into or agreed to any arrangement which may restrict, prohibit or debar or conflict or be inconsistent with my acceptance of the offer made by Brainayan or employment with Brainayan, including, but not limited to, any time-bound non-compete agreement, restrictive employment agreement or other restrictive terms.

I hereby represent and warrant that I have not and will not inappropriately disclose or misuse any confidential information obtained from and/or in connection with any current/previous employer and any other employment or contractor relationships.

ACKNOWLEDGED AND AGREED: *Nayanjeet Saikia*

Full Name: *Nayanjeet Saikia*

Date: *13/09/2021*

R. B. Boroah
10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. ABHISHEK RANJAN** has completed internship programme on “**Web Developer**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

10/07/2022
Head
Department of Computer Science & Engg.
Tatyasaheb Kore University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. ANURAG PATEL** has completed internship programme on “**Data Science**” from 06.07.2021 to 05.08.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

13/08/2021
Head
Department of Computer Science & Engg.
Tezpur University



saurabh singh <saurabhkeyid@gmail.com>

Regarding Internship in Deep Learning.

Dr. S. K. Singh <sks.cse@iitbhu.ac.in>

Wed, Mar 17, 2021 at 8:04 PM

To: saurabh singh <saurabhkeyid@gmail.com>

Cc: Training and Placement Cell IIT BHU Varanasi <tpo@itbhu.ac.in>

Dear Saurabh,

I agree to supervise you and on successful completion of the project you will be issued a certificate. Please complete other formalities from the training and placement cell.

Sanjay Kumar Singh

On Wed, 17 Mar 2021, 18:16 saurabh singh, <saurabhkeyid@gmail.com> wrote:

Respected Prof. Sanjay Kumar Singh Sir,

My name is Saurabh Kumar Singh and I'm a third year student at Tezpur Central University, Assam pursuing B.Tech. in Computer Science and Engineering. I am very interested in your work on Deep Learning, and believe it fits well with my interest. My area of interest is Deep Learning and I want to do my future research pursuits in the same field. I have been working in the field of Machine Learning for one year and apart from doing few projects related to Reinforcement Learning, I have recently taken part in some research projects in the field of Deep Learning. In the future I would like to work on quality projects in order to research more in the field of Deep Learning. I wish to start an internship under your guidance. I have also taken several advanced courses in Deep Learning on coursera, which may help me get started quickly for the internship. I will be available during the whole internship and will be very sincere throughout the internship.

It will be a great opportunity for me to work under your guidance so that I can learn new things while working on quality projects. For your reference I have attached my Resume with the mail. I will be looking forward to hearing from you.

Sincerely,

Saurabh Kumar Singh.

Contact No-9140858251, 9451800056

Saurabh
10/04/2022
Head
Department of Computer Science & Engg.
Tezpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. SIRIPURAPU PAVAN KUMAR** has completed internship programme on “**Web Developer**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

P. Prasad
10/07/2022
Head
Department of Computer Science & Engg
Tatyasaheb Kore University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. ANKIT KUMAR MISHRA** has completed internship programme on “**Web Developer**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com



Department of Electrical Communication Engineering
Robert Bosch Centre for Cyber-Physical Systems
Indian Institute of Science, Bengaluru - 560012

Dr. Parimal Parag

Phone: +91 80 2293 2279

parimal@iisc.ac.in

INTERNSHIP COMPLETION CERTIFICATE

November 05, 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Krishna Prabhakar**, third year BTech student (Computer Science and Engineering) from Tezpur University, Tezpur, Assam, has successfully completed his Summer Internship at Centre for Networked Intelligence (affiliated to EECS Division and Robert Bosch Centre for Cyber Physical Systems at Indian Institute of Science, Bangalore) for 10 weeks during **May 17, 2021 & August 02, 2021**

As part of his internship, he was part of the “Low Latency Video Transmission Over Variable Channel Capacity” project at CNI. During his internship, he worked with self-motivation, demonstrating his team working abilities and willingness to learn new skills.

Parimal Parag

Parimal Parag (Nov 5, 2021 23:22 GMT+5.5)

Dr. Parimal Parag

Associate Professor, ECE Department, IISc

Co-convenor, Centre for Networked Intelligence (CNI)

R. Prabhakar
10/10/2022
Head
Department of Computer Science & Engg
Tezpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. UTKARSH ANAND** has completed internship programme on “**Data Science**” from 06.07.2021 to 05.08.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

A handwritten signature in blue ink, dated 10/02/2022, with a purple stamp below it that reads 'Head Department of Computer Science & Engg Tezpur University'.

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. HIMANSHU GUPTA** has completed internship programme on “**Web Developer**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

R. Borah
10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. JAY PRAKASH BORO** has completed internship programme on “**Data Science**” from 29.07.2021 to 28.08.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

R Borah
10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University



Date: August 20th, 2021

TO WHOM IT MAY CONCERN

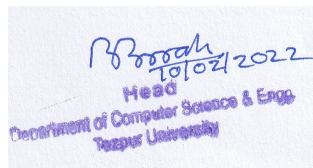
This is to certify, Rezoom Chakma Student of Tezpur University, Tezpur, Assam and bearing Roll No. CSB18034 has undergone summer internship/Training on IBM project and technologies with us. The details are as follows:-

Project Name:	POC on Wine_Review Data Set Analysis
Duration of Training cum Internship	6 Weeks
Internship Period	July 2021 – August 2021
Technology	Big Data Analytics using IBM Big SQL
Tools / Platform used	Hive, Pig, Sqoop, Hadoop, MapReduce, HBASE
Reference Number	AIP/CEP2021/IN/21584
Main Subject Matter Expert	Mrs. Gurpreet Kaur
Co Subject Matter Expert	Ms. Khushbu Datwani
Achievements	IBM Digital Badge and Project Completion Certificate

During the training, assessment and project period we find intern sincere, hardworking and having good behavior and moral character.

We wish intern all success in future endeavors.

Mr. S. K Garg
In charge | Delivery
India/SA




For Allsoft Solutions & Services
Authorised Signatory

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. AVISHEK DUTTA** has completed internship programme on “**Data Science**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com



GURUGRAM POLICE
CYBER SECURITY SUMMER INTERNSHIP
CERTIFICATE OF RECOGNITION

This to certify that

GAUTAM BAISHYA

has attended
CYBER SECURITY SUMMER INTERNSHIP
PROGRAM 2021
conducted from June 2021 to July 2021 at
the Cyber Crime Cell, Gurugram Police.
During the internship his/her performance
was rated Excellent

Dt:- 15/07/2021

Sri K. K. Rao, IPS
Commisioner of Police, Gurugram

Sri Rakshit Tandon
Coordinator/Advisor, Cyber Cell Gurugram Police
Director, Hackdev Technology Pvt. Ltd.

R. Prasad
10/07/2022
Head
Department of Computer Science & Engg.
Tezpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. BICHCHURAN CHANGMAI** has completed internship programme on “**Data Science**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

10/06/2022
Head
Department of Computer Science & Engg.
Tezpur University



CSIR - CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE
(A constituent establishment of CSIR)
MAHATMA GANDHI AVENUE, DURGAPUR – 713 209



Online Summer Internship Certificate

This is to certify that RAJDEEP GHOSH, 6th semester student of Tezpur University, Assam has undergone Online Summer Internship Programme from 09.06.2021 to 21.07.2021 in this Institute.

He has successfully completed the assignment on “Context Aware Decision Making in IOT Fog-Cloud Base Infrastructure” in the department of Information Technology.

Dated:

Durgapur
July 26, 2021

(Dr. R. P. Barnwal)
Principal Scientist

R. P. Barnwal
10/07/2022
Head
Department of Computer Science & Engg.
Tezpur University

(Dr. Anjali Chatterjee)
Chief Scientist & Head, BIS

FORTUNE
500

इंडियन ऑयल कॉर्पोरेशन लिमिटेड (एम.डी.)
INDIAN OIL CORPORATION LTD. (MD)



Indian Oil
A Maharatna
Company

(मार्केटिंग डिविजन)
(Marketing Division)

CIN : L23201MZ1959GOI011388

जसीडीह इंडस्ट्रीयल एरिया, जसीडीह, देवघर-814 142
Jasidih Industrial Area, Jasidih, Deoghar-814 142
Ph. No. : 7858800205, 7858800206

Summer Internship Certificate

This is to certify that Shri Harsh Shukla, Student of Department of Computer Science & Engineering, Tezpur University, Tezpur, Assam has undergone Summer internship during the period 12.07.2021 to 11.08.2021 at Indian Oil Corporation Limited, Jasidih Terminal on the subject "Terminal Automation System" installed at Jasidih Terminal & suggesting improvements in process at various workstations.

Conduct of Shri Harsh Shukla during Summer internship at Jasidih Terminal has been exemplary & his performance in carrying out project titled above has been excellent.

We wish him all the success in all his future endeavors.

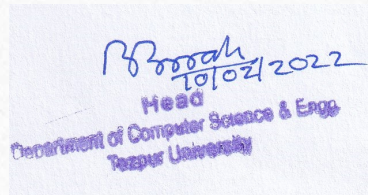
12/08/21

लव श्रीवास्तव/Love Shrivastava
उप महानिर्देशक (ट)/DGM (T)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Ltd. (MD)
जसीडीह टर्मिनल/Jasidih Terminal
जसीडीह इंडस्ट्रीयल एरिया, जसीडीह-814142
Jasidih Industrial Area, Jasidih-814142

12/08/2021
Head
Department of Computer Science & Engg.
Tezpur University

Certificate of Internship

This is to certify that Mr. Abdul Munyeem Siddique of Tezpur University has successfully undergone **4 weeks ONLINE internship** program from **July 1 to July 28, 2021**, on “**Robotics, Machine Learning & Data Science**” at **Megara Robotics Pvt. Ltd.**, Chennai in collaboration with Humanitarian Technology (HuT) Labs and IEEE Student Branch Of Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kerala.



Abdul Munyeem Siddique
10/10/21/2022
Head
Department of Computer Science & Engg.
Tezpur University



M. Sujith Kumar
Megara Robotics Pvt. Ltd.



THE SPARKS FOUNDATION

INSPIRE, INNOVATE, INTEGRATE

CERTIFICATE OF COMPLETION

This Certificate is presented to

Subham Dey

for an outstanding contribution during the session (Jun 2021 - Jul 2021) of
Graduate Rotational Internship Program at The Sparks Foundation on 03-Jul-2021.



Certificate Number: 445FEE8PPV

Verification at:

<https://truecertificates.com/verification/>

PRANAV DUBEY

MANAGING DIRECTOR

Pranav Dubey
10/07/2022
Head
Department of Computer Science & Engg.
Tatyasaheb Kore University



IIT KANPUR
TECHKRITI'21
REALM OF VIRTUALITY



CERTIFICATE OF COMPLETION

This is to certify that

CHINMOY BORAH

has successfully completed **4 Weeks** Summer Internship & Training Program with TECHKRITI'21, IIT-Kanpur in

WEB DEVELOPMENT

His/her conduct during the training was commendable and He/she has executed all the responsibilities very well. We wish him/her all the success in future.

Ankit Kumar
Ankit Kumar
Founder & CEO

Suryansh Agrawal
Suryansh Agrawal
Festival Chairman

Organised By Edu-Vitae Services In Collaboration With Techkriti'21 IIT Kanpur

Date of Issue : 28th Sept 2021 | Certification No. : EVS/S21-22/412

www.eduvitae.co.in

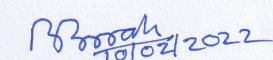
contact@eduvitae.co.in

+91-8168123648

B Borah
10/02/2022
Head
Department of Computer Science & Engg
Tezpur University

Certificate of Internship

This is to certify that Mr. **Bikram Baruah** of **Tezpur Central University** has successfully undergone **4 weeks ONLINE internship** program from **July 1 to July 28, 2021**, on “**Robotics, Machine Learning & Data Science**” at **Megara Robotics Pvt. Ltd.**, Chennai in collaboration with **Humanitarian Technology (HuT) Labs** and **IEEE Student Branch Of Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kerala.**



Head
Department of Computer Science & Engg.
Tezpur University



Megara Robotics Pvt. Ltd.

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. ANUPAM MILI** has completed internship programme on “**Data Science**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

A handwritten signature in blue ink, appearing to read "Y Vishnuvardhan".

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

A handwritten signature in blue ink, dated "10/07/2022", with a stamp below it that reads "Head, Department of Computer Science & Engg, Tezpur University".



Department of Computer Science & Engineering
Indian Institute of Technology Guwahati
Guwahati – 781 039
Assam, INDIA

E-mail: pkdas@iitg.ac.in
pkdas2@gmail.com
Internet: <http://www.iitg.ac.in/pkdas/>
<http://www.iitg.ac.in/cse/robotics/>
Fax: +91-361-2692787
Telephone: +91-361-2582353

Dr. P. K. Das
Professor &
Organizing Vice Chairman JEE-2009
ex-Vice President – IIT Club

5th September 2021

Internship Certificate

I know Mr. Anupam Chetia for the last one year. I have found him to be a sincere and diligent student. He had undergone his summer internship from 23rd June 2021 to 24th August 2021 in this Dept. He was given the problem of *“Design and Implementation of Voice based Path Planning System for Airborne Vehicles”*.

During this period of interaction (about two months) that I have had with him, I have found him to be sincere and productive. He had shown aptitude and interest to learn and grasp new concepts. He has good programming and logical analysis skills which he has demonstrated in solving problems as posed to him.

Prof. P K Das

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. ANKUSH KUMAR** has completed internship programme on “**Data Science**” from 06.07.2021 to 05.08.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

A handwritten signature in blue ink, dated 10/02/2022, with a blue stamp below it that reads 'Head, Department of Computer Science & Engg, Tezpur University'.

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. ANKIT AGARWALA** has completed internship programme on “**Web Developer**” from 15.07.2021 to 14.08.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TEZPUR UNIVERSITY

Tezpur-784028, Assam, India

Certificate

This is to certify that the report entitled "*Biclustering of Gene Expression Data using Cheng-Church Algorithm*", submitted to the Department of Computer Science and Engineering, Tezpur University in partial fulfillment of 6th Semester Major Project of Master of Computer Applications in Department of Computer Science and Engineering, is a record of project work carried out by Rajesh Saikia (CSM18013) under my supervision during the period from February 2021 to June 2021. All support received by him from various sources have been duly acknowledged.

Date: 24/06/2021

Place: TEZPUR

Internal Supervisor

Dr. Rosy Sarmah

Assistant Professor

Department of CSE

Assistant Professor,
Department of Computer Science & Engg.
Tezpur University



Department of Computer Science and Engineering

Tezpur University

CERTIFICATE

This is to certify that the dissertation entitled “**Integrative approach of Malware Detection**” is a bonafide record of project work carried out by **Sumit Kumar Thakur (CSB17018)**, **Manish Kumar Gupta (CSB17056)**, **Jitul Rajbongshi (CSB17072)** and submitted in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering, Tezpur University. The project work is done under the supervision of Dr. Dhruba K Bhattacharyya. 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: 24/06/2021

Place: Tezpur

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

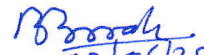
Head
Department of Computer Science & Engg
Tezpur University

Certificate by the Head of Department

This is to certify that the report entitled submitted by Deep Convolution Network to identify unknown person from video frame Harsh Kumar(CSB17059), Ravi Roushan Kumar(CSB17078) in partial fulfilment of the requirements for the degree of Bachelor of Technology in Computer Science and Engineering has been examined by me and is found satisfactory for the award of the degree. The project work is done under the supervision of Dr. Bhogeswar Borah. This approval 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: 23/06/2021

Place: Tezpur


23/06/2021

Dr. Bhogeswar Borah

Professor and HOD

Department of CSE Tezpur University


Head
Department of Computer Science & Engg
Tezpur University

Rokto Xonjivoni
A mobile application to find a blood donor in close proximity

A Dissertation submitted in partial fulfillment of the requirements of the degree

Of

Bachelor of Technology

In

Computer Science and Engineering

Submitted by

Pranjal Das(CSB17021)

Sonit Kumar Adhikari(CSB17044)

Rituparna Das(CSB17074)

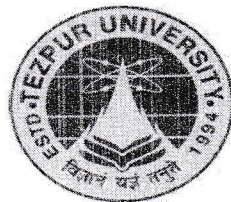
Under the supervision of

Dr. Nabajyoti Medhi

Assistant Professor

Department of Computer Science and Technology

Tezpur University



School of Engineering

Department of Computer Science and Engineering

Tezpur University

Napaam-784028, Assam, India

June 2021



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

CERTIFICATE BY THE HEAD

I hereby request that the dissertation prepared under the supervision and guidance of Dr. Nabajyoti Medhi titled "Rokto Xonjivoni-A mobile application to find a blood donor in close proximity" be accepted in partial fulfilment of the requirements for being awarded Degree of Bachelor of Technology in Computer Science and Engineering, for the session 2017-2021 at Tezpur University.

Date: 24/06/2021

Place: Tezpur

Dr. Bhogeswar Borah

Head

Department of Computer
Science and Engineering

Tezpur University

Head
Department of Computer Science & Engg.
Tezpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. SWAPNIL DEB** has completed internship programme on “**Data Science**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.



Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com



18/06/2021
Head
Department of Computer Science & Engg
Tezpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. SURAJ SARMAH** has completed internship programme on “**Data Science**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

A handwritten signature in blue ink, appearing to read 'Y Vishnuvardhan'.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

A handwritten signature in blue ink, dated '10/07/2022', with the text 'Head Department of Computer Science & Engg Tezpur University' printed below it.

MITACS Globalink CERTIFICATE OF COMPLETION

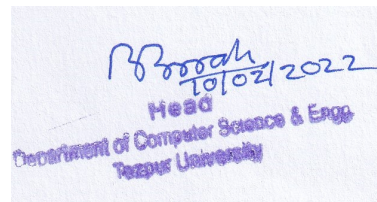
Subhasish Goswami

This certifies that Subhasish Goswami has successfully completed a Mitacs Globalink Research Internship effective October 2021.

Project Title: High-performance practical blockchain systems
Host University: École de technologie supérieure – Montréal
Host Professor: Kaiwen Zhang

Globalink Research Internships are 12 weeks in duration and interns are required to work 40 hours per week.

October 10th, 2021



Subhasish Goswami
10/10/21 2022
Head
Department of Computer Science & Engg.
Tatyasaheb Kore University



Gail Bowkett
Vice President of Programs



Mitacs



To Whom It May Concern

Date: 20/8/2021

This is to certify that Mr. Rajib Singh, students of BTech (CS), Tezpur University, has successfully completed his internship under my supervision and has developed an Android App for Gallbladder Cancer Awareness from 15-06-2021 to 15-08-2021.

Dr. R. Sarmah

Principal Investigator, ICMR- NER Project
Dept. of Computer Sc. & Engg.,
Tezpur University

Prof. A. Talukdar

Co- Principal Investigator, ICMR- NER Project
Dept. of Surgical oncology,
Dr. B. Borooah Cancer Institute, Guwahati

15/08/2021
He is
Department of Computer Science & Engg.
Tezpur University



सॉफ्टवेयर टेक्नोलॉजी पार्क्स ऑफ इंडिया

(भारत सरकार, इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय के अंतर्गत स्वायत्त सोसाइटी)

समीप एल.जी.बी.आई. हवाई अड्डा, बोरझार, गुवाहाटी - 781015 (असम)

Software Technology Parks of India

(An Autonomous Society under Ministry of Electronics & Information Technology, Government of India)

Near L.G.B.I. Airport, Borjhar, Guwahati-781015 (Assam)

Phone : 0361-2841269/2842728, NOC : 0361-2841374

Fax : 0361-2842657

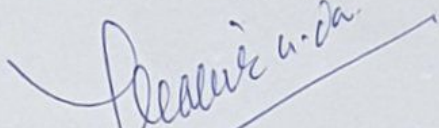
Webssite : www.guwahati.stpi.in

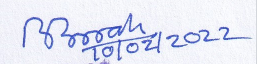
E-mail : guw.info@stpi.in

TO WHOM IT MAY CONCERN

This is to certify that, Sri. Rajdip Dutta, S/o Sri. Ratnadip Dutta of Tezpur University, Assam, bearing roll no CSB19201, Regd. No. TZ203843 of 2021 of CSE Department had successfully completed the internship program (online) on the topic "Implementing DNSSec" with STPI Guwahati from 1st July 2021 to 15th August 2021.

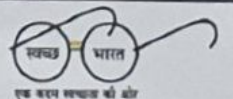
Date: 23rd Sept. 2021


(Prabir Kumar Das)
Director


10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University



Head Quarter : Plate-B, 1st Floor, Office Block-I,
East Kidwai Nagar, New Delhi-110 023.
Telephone No. : 011-24628081, Fax No. : 011-20815076



Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Ms. PRANAMIKA CHETIA** has completed internship programme on “**IOT Developer**” from 04.06.2021 to 03.07.2021.

She took keen interest in the work assigned and successfully completed it. During the period of internship we found her to be punctual, hardworking and inquisitive.

We wish her luck and success in all her future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

10/07/2022
Head
Department of Computer Science & Engg.
Tezpur University

SENSORDROPS NETWORKS PRIVATE LIMITED

"Connectivity for Continuity"

1A/2, Science and Technology Entrepreneurs' Park (STEP)
Indian Institute of Technology Kharagpur

INTERNSHIP CERTIFICATE

This is to certify that

PARARDHA SARMAH

of

Tezpur University, Assam has successfully completed an internship during

20th Apr, 2021 – 30th June, 2021

in an R&D project at

SensorDrops Networks Pvt. Ltd.

Parardha
10/07/2022
Head
Department of Computer Science & Engg.
Tezpur University

Aug 27, 2021

Date



A handwritten signature in green ink, appearing to be 'Aly', is written above a horizontal blue line.

Director

DATE: November 18th, 2021

REF NO: MWC21098

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. Nitish** has completed the full time virtual Internship at **MyWays Life Layouts Pvt. Ltd.** as per details below:

<u>INTERNSHIP PERIOD</u>	07.08.21 to 09.9.21
<u>DIVISION</u>	Data Structure and Algorithms

He showed exemplary work performance in the Data Structure and Algorithm Team and completed the project to our satisfaction. He demonstrated a knack for Data Structure and Algorithm and worked on various functions. He displayed a self motivated attitude towards his work and was always willing to learn new things.

We wish him very best in his future endeavours.

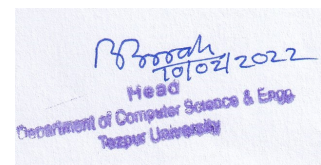
With Best Wishes

From, MyWays Life Layouts Pvt. Ltd.



PUNEET GROVER

HEAD OF TECHNICAL DEPARTMENT



P. B. Grover
10/02/2022
Head
Department of Computer Science & Engg.
Tatyasaheb Kore University

"SUCCESSFUL CAREER IS A JOURNEY, NOT A DESTINATION. LET US TRAVEL TOGETHER!"

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. MOUSOOM MUDOI** has completed internship programme on “**Web Developer**” from 03.08.2021 to 02.09.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

R. R. R.
10/02/2022
Head
Department of Computer Science & Engg.
Rajpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. MILAN MANDAL** has completed internship programme on “**Data Science**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

A handwritten signature in blue ink, appearing to read "Y Vishnuvardhan".

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

A handwritten signature in blue ink, dated "10/07/2022", with a purple stamp below it that reads "Head Department of Computer Science & Engg. Tezpur University".



Certificate of Achievement

Meghna Roy

Has successfully completed the following project:

Designing User Experience for STEM Skill Development Software

Debaleena Das

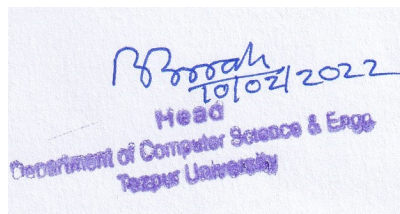
Debaleena Das, PhD

Founder & CEO at STEM-Away®

Anthony Liao

Anthony Liao





STEM-Away® Pathway Mentor



Mentor Chains® Role
Project Lead, July 2021

Self Assessments
stemaway.com/pub/cert-8874

Badges

-  leadership-award
-  STEM-orator
-  core-contributor
-  discussion-booster



UX & UI @ STEM-Away

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. MASUD AHMED** has completed internship programme on “**Web Developer**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

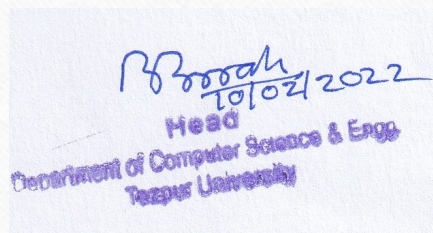
Chief Director



hr@exposysdata.com
www.exposysdata.com

Certificate of Internship

This is to certify that **Mr. Manas Pratim Das** of **Tezpur Central University** has successfully undergone **4 weeks ONLINE internship** program from **July 1 to July 28, 2021**, on “**Robotics, Machine Learning & Data Science**” at **Megara Robotics Pvt. Ltd.**, Chennai in collaboration with Humanitarian Technology (HuT) Labs and IEEE Student Branch Of Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kerala.



18/08/2021
20/07/2022
Head
Department of Computer Science & Engg.
Tezpur University



M. Rajesh Kumar

Megara Robotics Pvt. Ltd.



DIPLOMA

presented to

Hirokjyoti Dutta

for outstandingly participating in the project
**Reinforcement Learning Agent for Quantum
Foundations** led by Aritra Sarkar organized
during QIntern 2021



(Adam Glos, QWorld)



(Zoltán Zimborás, QWorld)

Diploma Number: QIntern2021-3
01.07.2021-22.08.2021



qworld.net | We are working to build an open quantum ecosystem



INDIAN INSTITUTE OF TECHNOLOGY INDORE

(An autonomous institute under the Ministry of Education, Government of India)

e-CERTIFICATE

This is to certify that **Mr. Moloy Writ Saikia** has successfully completed the “Online Internship for the Undergraduate Students” with IIT Indore Faculty Mentor Prof. (Dr.) Narendra S. Chaudhari, Department of Computer Science and Engineering, from May 20, 2021 to July 21, 2021. He has worked on the area entitled “Reinforcement Learning and Network Security”.

Prof. (Dr.) Narendra S. Chaudhari
IIT Indore Faculty Mentor

Professor Anand Parey
Dean, Resources Generation

10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University



INDIAN INSTITUTE OF TECHNOLOGY INDORE

(An autonomous institute under the Ministry of Education, Government of India)

e-CERTIFICATE

This is to certify that **Mr. Manash Saikia** has successfully completed the “**Online Internship for the Undergraduate Students**” with IIT Indore Faculty Mentor **Dr. Neminath Hubballi**, Department of Computer Science and Engineering, from June 23, 2021 to August 23, 2021. He has worked on the area entitled “**Slow Rate HTTP Attacks Detection**”.

Dr. Neminath Hubballi
IIT Indore Faculty Mentor

Professor Anand Parey
Dean, Resources Generation

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. DIPANKAR CHETRY** has completed internship programme on “**Web Developer**” from 22.06.2021 to 21.07.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

10/07/2022
Head
Department of Computer Science & Engg.
Tezpur University

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Department of Mathematics

CERTIFICATE

This is to certify that *Mr. Upam Sarmah* of *Tezpur University, Tezpur*, participated and successfully completed the Summer Internship Programme-2021 of the Department of Mathematics, IIT Guwahati during 01 May – 31 August, 2021.

Anupam Saikia
Anupam Saikia
(Supervisor)


Kalpesh Kapoor
(Head of the Department)

Upam Sarmah
10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University

Date: 26 July, 2021

TO WHOMSOEVER IT MAY CONCERN


This is to certify that **Mr. Binay Sharma** has successfully completed internship at **Axisvation Solutions** from **14 May 2021** to **16 July 2021**. He has worked on AI Solution and Mobility Platform under the guidance of **Mr. Akshay Bhor**.

We have found him to be a self-starter, motivated, duty-bound, and hard working. He worked sincerely on his assignments and his performance was par excellence.

We wish him a good luck in all his future endeavours.

For Axisvation Solutions


Authorised Signatory



R. B. Bhoir
10/07/2022
Head
Department of Computer Science & Engg.
Tatyasaheb Kore University



THE ARTISTIC
WOODEN BOXES
FOR GIFT
PURPOSE

Haldia, West Bengal 721602

TO WHOM IT MAY CONCERN

Craftastic is delighted to inform that **Mr. Owashim Akram** from the *department of Computer Science and Engineering, Tezpur University*, has successfully completed his summer internship online during the period from *June 23, 2021* till *August 21, 2021*.

During the period of his internship with us, he worked on developing a website using ReactJS, Firebase and Material-UI in Node.js platform. He was found to be diligent, hardworking and technically efficient.

We wish him every success in his life and career.

With Regards,

Proprietor,

Craftastic

Website: <https://www.craftastic.art>

Google Play Store: <https://play.google.com/store/apps/details?id=com.craftastic.craftastic>

Email: mail.craftastic@gmail.com

Mobile: 7501352080 (WhatsApp)

10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University



Finverse Technologies Pvt Ltd.

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Aditty Dey has successfully completed his internship of 8 weeks with Finverse Technologies Pvt Ltd. His internship tenure was from 2nd June, 2021 to 31st July, 2021. He worked as Full Stack Developer and was actively & diligently involved in the projects and tasks assigned to him.

During the span, we found him dedicated, sharp and hardworking. He is a very quick learner and is always enthusiastic to learn more. His feedback and evaluation proved that he learned keenly. Moreover, his interpersonal and communication skills are brilliant.

We wish him a bright future.

Sincerely,

Purushottam

CEO – Finverse Technologies Pvt Ltd

Date: 02/08/2021

A handwritten signature in blue ink, dated 10/02/2022, is written over a blue ink stamp. The stamp text reads: "Head", "Department of Computer Science & Engg.", and "Tezpur University".

10/02/2022
Head
Department of Computer Science & Engg.
Tezpur University



To Whom It May Concern

Date: 20/8/2021

This is to certify that Mr. Akhil Mishra & Ms. Barbie Duarah, students of BTech (CS), Tezpur University, have successfully completed their internship under my supervision in the project titled "Gall Bladder Segmentation with Morphological Active Contours" from 15-06-2021 to 15-08-2021 and demonstrated good programming and analytical skills.

Dr. R. Sarmah

Principal Investigator, ICMR- NER Project
Dept. of Computer Sc. & Engg.,
Tezpur University

Prof. A. Talukdar

Co- Principal Investigator, ICMR- NER Project
Dept. of Surgical oncology,
Dr. B. Borooah Cancer Institute, Guwahati

Head
Department of Computer Science & Engg.
Tezpur University



To Whom It May Concern

Date: 20/8/2021

This is to certify that Mr. Akhil Mishra & Ms. Barbie Duarah, students of BTech (CS), Tezpur University, have successfully completed their internship under my supervision in the project titled "Gall Bladder Segmentation with Morphological Active Contours" from 15-06-2021 to 15-08-2021 and demonstrated good programming and analytical skills.

Dr. R. Sarmah

Principal Investigator, ICMR- NER Project
Dept. of Computer Sc. & Engg.,
Tezpur University

Prof. A. Talukdar

Co- Principal Investigator, ICMR- NER Project
Dept. of Surgical oncology,
Dr. B. Borooah Cancer Institute, Guwahati

Head
Department of Computer Science & Engg.
Tezpur University

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. ADITYA NATH** has completed internship programme on “**Web Developer**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

A handwritten signature in blue ink, appearing to read "Y Vishnuvardhan", is positioned above the printed name.

Y Vishnuvardhan

Chief Director



hr@exposysdata.com
www.exposysdata.com

A rectangular stamp with a double-line border. It contains a handwritten signature in blue ink, the date "10/07/2022", and the text "Head Department of Computer Science & Engg Tezpur University" in a blue, sans-serif font.

Exposys Data Labs



Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. AASURJYA BIKASH HANDIQUE** has completed internship programme on “**Data Science**” from 01.06.2021 to 30.06.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director



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10/07/2022
Head
Department of Computer Science & Engg
Tezpur University