

Curriculum Vitae

Mrinal Borah

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EDUCATION

Indian Institute of Technology, Guwahati

Doctor of Philosophy in Electronics and Electrical Engineering
Specialization: Signal Processing and Machine Learning

Guwahati, Assam

July 2024 – Present

Tezpur University

M.Tech in Electronics Design and Technology
Department of Electronics and Communication Engineering

Tezpur, Assam

October 2021 – June 2023

North Eastern Regional Institute of Science and Technology

B.Tech in Electronics and Communication Engineering

Nirjuli, Arunachal Pradesh, India

August 2018 – June 2021

Central Institute of Technology

Diploma in Electronics and Telecommunication Engineering

Kokrajhar, Assam, India

August 2015 – July 2018

RESEARCH INTEREST

- Artificial Intelligence, Machine Learning and Deep Learning.
- Digital Image/Signal Processing and Computer Vision.
- Comprehensive Study of Socio-economic Problems and Ethnicity of Indigenous Tribes in Assam.

SKILLS SUMMARY

- **Languages:** Python(preferred),VHDL,C++,Latex.
- **Frameworks:** Scikit, Tensorflow, Keras, Pytorch, OpenCV.
- **Platforms:** Linux,Web,Windows,Arduino, Cuda
- **Soft Skills:** Leadership,Event Management, Creative Writing, Public Speaking, Time Management.

WORKSHOPS AND TRAININGS

- **Training:** Four weeks summer training on MATLAB at Tech Booster.(19th june 2017 to 15th july 2017)
- **Training:** Two weeks winter industrial training at BSNL, Tezpur. (18th Jan 2018 to 30th Jan 2018)
- **Training:** Six weeks online training on Machine Learning at Internshala Training.
- **Workshop:** Participated in a two days Arduino workshop organized by IGNOTECH on the dates 28th and 29th Oct 2017
- **Workshop:** Participated in a workshop on Autonomous Robotics organised by TechTron Technologies in association with Techniche'17, IIT Guwahati.
- **Webinar:** Attended five days webinar series on Electronic Devices and Systems organised by the department of Electronics and Communication Engineering, Tezpur University. (31th jan 2022 to 4th feb 2022)
- **Workshop:** Attended a SERB Sponsored workshop titled as "High End Workshop on Fundamentals of Deep Learning" at IIT Guwahati, organized by IIT Guwahati and Research for Resurgence Foundation, Nagpur.(12 Sept to 18 Sept, 2022)
- **Workshop:** Attended a Two Days workshop on "Embedded Machine Learning on System-on-Chip" organized by the Departments of ECE and CSE, Tezpur University in association with IIT Guwahati, IIT Mandi and CoreEL Technology Bangalore.(20 Dec and 21 Dec, 2022)

ACADEMIC PROJECTS

- **Diploma Project:** Car Engine Blocking Systems using Arduino and MQ3 Sensor for Drunk Drivers. (May'2018)
- **B.Tech Project:** Android Based Wheelchair Design for Physically Challenged Person with having Advanced Facilities. (May'2021)
- **M.Tech Thesis:** Deep Learning Based Segmentation and Classification of Litchi Tree Crown using UAV Images. (Aug'2022 - July'2023)

HONORS AND AWARDS

- Served as a Advisor of Assam Students' Association of NERIST (2020-2021).
- Served as a Finance Secretary of Assam Students' Association of NERIST (2019-2020).
- Anundoram Borooah Award- 2014.