

# Mainak Chakraborty

[Linkedin](#) | [Personal Website](#)

mainakchakraborty92@gmail.com

(+91) 8910255787

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## EDUCATION

### Indian Institute of Engineering Science and Technology, Shibpur

*Mtech in mechatronics and Robotics*

9.07/10.0 GPA

**Shibpur, India**

*July 2019 – August 2021*

GATE Scholarship(2019-2021)

### University of Engineering & Management (UEM), Jaipur

*B.tech in Mechanical Engineering*

**Jaipur, India**

*July 2014 – August 2018*

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## EXPERIENCE

### Proxmaq

*Machine Learning Engineer*

**Bangalore, India**

*April 2021 –*

- Developing Robust Computer Vision based Solution for blind People
- Worked in the Currency Detection module and Video Captioning Module

### CSIR-Central Mechanical Engineering Research Institute

*Research Trainee [Robotics & Automation lab]*

**Durgapur, India**

*August 2020 - August 2021*

- Investigated the possibility of human activity recognition using seismic sensor
- Developed robust ensemble learning algorithms based system for human activity detection
- Micro-seismic event detection using amplitude threshold and machine learning technique
- Used deep-learning algorithms like CNN, RNN-LSTM for activity recognition using CCTV

### RemoCare

*Research internship*

**Kerala, India**

*May 2021 – October 2021*

- Led a team of two interns to develop a remote arrhythmia classification(ECG data) module using Bi-LSTM deployed on mobile
- Parsed Json data file in real-time to detect 8types of arrhythmia.

**Skills:** Python, Machine Learning, Signal processing, Deep Learning, IoT.

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## ACADEMIC CONFERENCES

1. Mainak Chakraborty, Srinivasan A,Srinivasa Reddy, Sanjib Kumar Mandal, Subhasis Bhaumik, "Human Action Classification using seismic sensor and machine learning techniques", IEEE 5th International Conference on Information Systems and Computer Networks (ISCON) Technically Sponsored by IEEE UttarPradesh Section [2021]
2. .Mainak Chakraborty, Srinivasan aruchamy, Vinaylak Srinivas, "Micro-Seismic Event Detection using statistical feature extraction and machine learning techniques"[To be submitted]