AMREETA CHATTERJEE

+918902030402 | **amreeta.chatterjee@outlook.com**

EDUCATION

St. Thomas' College of Engineering and Technology, Kolkata, India
Bachelor of Technology (B.Tech), Computer Science and Engineering, July 2019
CGPA-8.38/10 (Average of 6 semesters)

RELEVANT COURSEWORK:

Data Structure & Algorithms (8/10)	Computer Graphics (8/10)
Operating Systems (8/10)	Computer Networks (7/10)
Design & Analysis of Algorithms (8/10)	Compiler Design
Database Management System (8/10)	Image Processing
Object oriented programming (8/10)	Cloud Computing

SKILLS

Programming/Scripting Languages: (Proficient) Java, C; (Familiar)Python, C++, SQL, MATLAB, JavaScript, R
Platform: Linux, Windows

EXPERIENCE

- **Research Intern**

Indian Institute of Technology, Kharagpur, June-July, 2018
Intern for Dr. Sudip Misra, **Topic** – Sensor Networks
(Assisted in the research of the practical implementation of Fog-enabled sensor-cloud in healthcare and agricultural fields and implemented an algorithm for hop node selection in sensor-cloud infrastructure.)

- **Research Intern**

Indian Institute of Engineering, Science & Technology, Shibpur, December 2017 - July, 2018
Intern for Dr. Sekhar Mandal, **Topic** – Image processing and Computer Vision
(Conducted research on Convolutional Neural Networks and how they can be used for object detection and classification and successfully completed a research paper by the end of the internship.)

PUBLICATIONS

- Paper titled "*Detection and Classification of Earthquake Images from Online Social Media*." – Accepted in CIPR – Computational Intelligence in Pattern Recognition, 2019 (Springer). Authors – Ashish Kumar Layek, Amreeta Chatterjee, Debanjan Chatterjee, Samit Biswas

PROJECTS

- *Text Detection using Convolutional Neural Networks*
A model was trained using 50000 training and 10000 testing images of 32*32 dimensions each to classify a region as text or non-text.
- *Titanic Survival Prediction*
A data-science project for a beginner-level Kaggle competition. A passenger dataset has been analysed, by applying various machine learning models, to predict which passengers survived a certain disaster.
- *Detection of tumor in Brain MRI* (ongoing)
We are working on a novel tumor detection algorithm using machine learning techniques.

TRAININGS

- Data Science for Engineering, IIT Madras (NPTEL)
- Programming for everybody – getting started with Python (Coursera)
- Version Control with Git (Coursera)

EXTRA-CURRICULAR ACTIVITIES

- Participated in IEEE Workshop on "Internet of Things and Smart Cities", 2016
- Participated in E-Summit, 2017 by E-cell, IIT Kharagpur
- Part of the organizing committee of SREY, the annual tech fest of St. Thomas' College of Engineering & Technology, in 2017 and 2018.
- Campus Ambassador at E-cell, VIT (2018)
- Volunteer at Saujatya, a shelter home: Taught elementary subjects to underprivileged children