

# DEBANJAN CHATTERJEE

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## EDUCATION

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St. Thomas' College of Engineering and Technology, Kolkata, India  
*Bachelor of Technology (B.Tech), Computer Science and Engineering, July 2019*  
CGPA- 8.36/10 (Average of six semesters)

## RELEVANT COURSEWORK

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Design and Analysis of Algorithms (9/10)	Compiler Design
Operating Systems (8/10)	Cloud Computing
Data Structures & Algorithms (7/10)	Computer Networks (8/10)
Database Management System (8/10)	Image Processing
Object oriented programming (8/10)	

## SKILLS

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*Programming/Scripting Languages:* Java, C, Python, C++, SQL, R, JavaScript, MATLAB  
*Platform:* Linux, Windows

## EXPERIENCE

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- **Research Intern**

*Indian Institute of Technology, Kharagpur, June-July, 2017*  
Intern for Dr. Sourav Mukhopadhyay, Topic – Cryptography  
(Assisted in cryptanalyzing a LFSR-based stream cipher, and implemented AKS primality test algorithm)

- **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

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- Paper titled “*Detection and Classification of Earthquake Images from Online Social Media.*” – Accepted in Computational Intelligence in Pattern Recognition 2019, Springer.  
(Authors- Ashish Kumar Layek, Amreeta Chatterjee, Debanjan Chatterjee and Samit Biswas)
- First author of paper titled “*Attack Resistant Chaos-based Cryptosystem by Modified Baker Map and Logistic Map.*” – Submitted to Journal of Information Security and Applications, Elsevier.  
(Authors- Debanjan Chatterjee, Barnali Gupta Banik)

## PROJECTS

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- *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 by taking part in 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.

## TRAINING

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- Data Science for Engineering, IIT Madras (NPTEL)
- Programming, Data Structures and Algorithms in Python, IIT Madras (NPTEL)
- Version Control with Git (Coursera)
- Xfactor's Bootcamp on Full Stack Web Development Essentials(JAVA)

## EXTRA-CURRICULAR ACTIVITIES

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- Participated in IEEE Workshop on “Internet of Things and Smart Cities”, 2016
- Participated in E-Summit, 2018 by E-cell, Vellore Institute of Technology.
- Campus Ambassador at E-cell, IIT Bombay (2018)