
EDUCATION

Roorkee, Uttarakhand

IIT Roorkee

July 2015 - May 2019

- B.Tech. in Electrical Engineering with Minor Specialisation in Computer Science and Engineering.
- CGPA: 8.98/10
- Main coursework: Data Structures, Design and analysis of Algorithms, Database Management Systems, Computer Networks, Operating Systems, Discrete Structures, Artificial Neural Networks.

EMPLOYMENT

Member Technical

D. E. Shaw, India

July 2019 - Present

- Part of the Futures Trading strategy group. Contributing to building and maintaining a next generation time series data framework as well as tools to visualize and analyze financial data.
- Designed and developed a library using which Quants and developers can access data related to various financial instruments being traded by the group.
- Gained experience in software development and python design patterns.

Software Development Engineer, Intern

D. E. Shaw, India

May 2018 - July 2018

- Designed and developed a data validator for D. E. Shaw's data caching framework. The tool helped developers by reducing time to validate cached data by more than 80%.
- All code was reviewed, perfected and pushed to production. Received a full-time job offer.
- The project required knowledge of python and numpy. Also learnt concepts such as caching and memoization.

B.TECH. MAJOR PROJECTS

Foodistic

- Created a food ordering website using Django and SQLite. Gained knowledge about web development and relational databases.
- The website supported restaurant and customer login and signup. Customers could place orders from multiple restaurants. A restaurant could update and add new items to their menu.

Artistic Style Transfer in Images

- Developed a deep learning model using CNNs(Convolutional neural networks) that applies filters to target images similar to apps like prisma.
- Using transfer learning, the model was trained on a CPU. The developed deep learning model works in real-time and can also be applied on live videos.

Twitter Emotion Recognition Bot

- Built a sentiment classifier using word2vec model which achieved an accuracy of almost 80 percent.
- Also built a twitter bot which reads live tweets and replies to tweets from a fixed set of replies based on sentiment of the tweet.
- The project was displayed in the annual Technical Exhibition of IIT Roorkee, Shristi-2018.

LANGUAGES AND TECHNOLOGIES

- Programming Languages - Python, Numpy, Scipy, C++, Git, Shell, SQL, HTML, CSS, Javascript, Node.js, Django, Java(Basic), PHP(Basic)
- Others - Linux/Unix, Windows, Mac OS, Grafana, GitHub, Android Studio, Arduino, Keras, Tensorflow, Matlab

ACHIEVEMENTS AND RESPONSIBILITIES

- Student Mentor at Student Mentorship Program, IIT Roorkee: Mentored a group of eight first year students. Organized regular meetings and doubt clearing sessions for them.
- Qualified the prestigious IIT-JEE, 2015 and got All India Rank 1844 among 150,000 candidates who appeared for the exam. Scored All India Rank 1304 in the JEE Mains (2015) among 1.5 million candidates.
- Cleared National Talent Search Scholarship, 2013. Was among the top 1000 students from the country to receive the scholarship.