Pratik **Mishra**

Analyst · Goldman Sachs

Bengaluru, India

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Education

Indian Institute of Technology (IIT) Kanpur   *Kanpur, India*

B.S. in Mathematics and Scientific Computing   *May 2014 - May. 2018*

- Graduated with 8.5 CPI on a 10 point scale
- Academic excellence award in 2017 for outstanding performance

Skills

Programming C/C++, Python, Java, Git

Libraries Tensorflow, Pandas, Scikit-learn, Matlab

CourseWork Linear Algebra, Statistics, Natural Language Processing, Optimization Techniques, Bayesian Machine Learning

Experience

Goldman Sachs   *Bengaluru, India*

Analyst   *June. 2018 - PRESENT*

- Worked in the Systematic Market Making team with focus on **low latency** electronic and automated trading of futures
- Built and deployed(US,EMEA,ASIA) messaging service infrastructure on top of **rabbitMQ** for high resiliency trading
- Extensive C++ development(over **10,000 lines**) that involved Proxy OOP Design Patterns and dependency injection for an end-to-end system

Fuzzy Logix   *Bengaluru, India*

Software Engineering Intern   *May 2017 - Jul 2017*

- **Optimized** Linear Algebra subroutines such as Matrix Multiplication, QR-Factorization, LU-Factorization, LU-Inverse.
- Integrated open source libraries such as OPENBLAS and Industrial library such as Intel's MKL.
- Achieved **100x** performance boost compared to previous Benchmarks.

Projects

FUZZY LOGIX HACKATHON   *Bengaluru, India*

Computer Vision, Convolutional Neural Network   *May 2017*

- Developed an application that allows image search on Amazon.com
- Leveraged **Convolutional Neural Networks** for object detection.
- Used Selenium, Clarifai API to scrape amazon results using extracted key-words and computed Image similarity to produce results.

FRAUD PREDICTION IN ENRON DATASET   *IIT Kanpur*

Natural Language Processing, NLTK, Python   *Jul 2016 - Nov 2016*

- Employed NLP techniques and exploratory analysis to find Indicators of fraudulent behavior in Enron Emails dataset
- Implemented topic modelling using **LDA analysis** to make predictions

RUMOR DIFFUSION IN MULTI AGENT SYSTEMS   *IIT Kanpur*

Game Theory, Graph Algorithms, Matlab   *Jan 2017 - Apr 2017*

- Studied and simulated an evolutionary model for rumor dissemination process in complex networks using graph algorithms and game theory
- The simulations were ran on Facebook New Orleans dataset and Email correspondence dataset.

OPTICAL CHARACTER RECOGNITION   *IIT Kanpur*

Convolutional Neural Network, Tensorflow   *Feb 2016 - Apr 2016*

- Implemented Convolutional Neural Network and **Softmax regression** using **TensorFlow**(Google library for Machine Learning) for classification of digits using the MNIST dataset.

Achievements

2017   **ACM ICPC**, Qualified for ACM ICPC **World Finals**   *India*

2012   **INMO**, Finalist at Indian National Mathematics Olympiad   *India*