

Pratik Mishra

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EDUCATION

IIT KANPUR

MAJOR IN MATHEMATICS AND
SCIENTIFIC COMPUTING
May 2018 | Kanpur, India

DPS RANCHI

Grad. May 2014 | Ranchi, India

LINKS

Github:// [pratik1105](#)
LinkedIn:// [pratik1105](#)
Facebook:// [pratik.mishra.9](#)

SKILLS

PROGRAMMING

Comfortable:

C • C++ • Python • Git

Familiar:

Pandas • Matplotlib • Scikit-learn

COURSEWORK

UNDERGRADUATE

Linear Algebra

Abstract Algebra

Probability and Statistics

Data Structures and Algorithms

Natural Language Processing

Optimization Techniques

Databases

Bayesian Machine Learning

RESEARCH INTEREST

- Data Visualization
- Machine Learning
- Algorithms
- Discrete Mathematics

EXTRA CURRICULAR

- Maintain a personal blog for compositions ([LINK](#))
- Play Basketball, Football, Cricket, Table Tennis, Badminton

EXPERIENCE

FUZZY LOGIX | SOFTWARE ENGINEERING INTERN, LINEAR ALGEBRA OPTIMIZATION

May 2017 – July 2017 | Bangalore, IN

- 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.

FUZZY LOGIX HACKATHON | COMPUTER VISION

May 2017 | Bangalore, IN

- 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.

PROJECTS

FRAUD PREDICTION IN ENRON DATASET | CS 671

Jul 2016 – Nov 2016 | IIT Kanpur | Professor Harish Karnick | [github link](#)

- Employed NLP techniques 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 | CS 785

Jan 2017 – Apr 2017 | IIT Kanpur | Professor Harish Karnick | [github link](#)

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

OPTICAL CHARACTER RECOGNITION | PROGRAMMING CLUB

Feb 2016 – Apr 2016 | IIT Kanpur

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

COMPETITIVE PROGRAMMING

2017	ACM ICPC	Qualified for ACM ICPC World Finals
2017	Codechef profile	Maximum rating at 6* (on a 7* scale)
2017	Codeforces profile	Maximum level reached : EXPERT
2017	Kaggle	Modelled and created visualizations for public datasets

ACHIEVEMENTS

2017	IIT Kanpur	Academic Excellence Award
2011/12	National	Indian National Mathematics Olympiad (INMO) Finalist
2010	National	AIR 8 in DPS Science and Maths Competition