

# Pratik Mishra

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## EDUCATION

### IIT KANPUR

BS IN MATHEMATICS AND  
SCIENTIFIC COMPUTING

Expected May 2018 | Kanpur, India  
CPI : 8.7

### DELHI PUBLIC SCHOOL RANCHI

Grad. May 2014 | Ranchi, India

## LINKS

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

## 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

## SKILLS

### PROGRAMMING

Comfortable:

C • C++ • Python • HTML • CSS • Git

Familiar:

Pandas • Matplotlib • Scikit-learn

## 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.
- Performance tests for comparison with native system optimized libraries.

### FUZZY LOGIX HACKATHON | COMPUTER VISION

May 2017 | Bangalore, IN

- Developed an application that allows image search on Amazon.com.
- 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

Visualizations for Basketball and Game of thrones datasets.

## ACHIEVEMENTS

2012 National Indian National Mathematics Olympiad (**INMO**) **Finalist**

2010 National AIR **8** in DPS Science and Maths Competition