

# Pratik Mishra

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## EDUCATION

### IIT KANPUR

BS IN MATHEMATICS AND

SCIENTIFIC COMPUTING

Expected May 2018 | Kanpur, India

Cum. CPI: 8.8

### DELHI PUBLIC SCHOOL RANCHI

Grad. May 2014 | Ranchi, India

## COURSEWORK

### UNDERGRADUATE

Linear Algebra

Abstract Algebra

Probability and Statistics

Data Structures and Algorithms

Natural Language Processing

Optimization Techniques

Databases (ongoing)

Bayesian Machine Learning (ongoing)

## SKILLS

### PROGRAMMING

Comfortable:

C • C++ • Python • HTML • CSS

Familiar:

Git • Pandas • Matplotlib • Scikit-learn

## LINKS

Github:// [pratik1105](#)

LinkedIn:// [pratik1105](#)

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

Twitter:// [@pratikmishra001](#)

Quora:// [Pratik-Mishra-8](#)

## PROJECTS

### 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.

### 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

### COMBINATORIAL OPTIMIZATION | CS 774

Jul 2016 – Nov 2016 | IIT Kanpur | Professor Purushottam Kar | [github link](#)

- Completed a reading project on problems of combinatorial optimization under the course Optimization Techniques
- Compiled applications and heuristic solutions to the Travelling Salesman Problem and Min-Max flow problem

## COMPETITIVE PROGRAMMING

2016 **ACM ICPC**

2016 Codechef profile

2016 Codeforces profile

2016 Kaggle

**15th** and **20th** in Amritapuri and Chennai Regionals

Long contest world ranking of **461**

Maximum level reached : **EXPERT**

Completed 2 playground competitions

## RESEARCH INTEREST

- Data Visualization
- Machine Learning
- Algorithms
- Discrete Mathematics

## ACHIEVEMENTS

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

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

2009 National AIR **44** in Fiitjee Talent Reward Examination(FTRE)

## EXTRA CURRICULAR

- Maintain a personal blog ([LINK](#))
- Play Basketball, Football, Cricket, Table Tennis, Badminton
- Avid reader of Fiction Novels