

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:// [@pratkmishra001](#)

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

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|------|--------------------|---|
| 2016 | ACM ICPC | 15th and 20th in Amritapuri and Chennai Regionals |
| 2016 | Codechef profile | Long contest world ranking of 708 |
| 2016 | Codeforces profile | Maximum level reached : EXPERT |
| 2016 | Kaggle | Completed 2 playground competitions |

RESEARCH INTEREST

- Data Visualization
- Machine Learning
- Algorithms
- Discrete Mathematics

ACHIEVEMENTS

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|------|----------|---|
| 2012 | National | Indian National Mathematics Olympiad (INMO) Finalist |
| 2011 | National | Indian National Mathematics Olympiad (INMO) Finalist |
| 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