

Siddharth Mittal

SECOND YEAR UNDERGRADUATE · COMPUTER SCIENCE AND ENGINEERING

Indian Institute of Technology Kanpur

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Education

Indian Institute of Technology Kanpur

BACHELOR OF TECHNOLOGY, COMPUTER SCIENCE AND ENGINEERING

- Cumulative Grade Point Average: **9.4/10.0**

Kanpur, India

2015-2019 (Expected)

Shri Mahtoba Balwadkar College

HIGHER SECONDARY CERTIFICATE EXAMINATION, MAHARASHTRA BOARD

- Overall Percentage: **90.2**

Pune, India

2015

Indira National School

SECONDARY SCHOOL EXAMINATION, CBSE

- Cumulative Grade Point Average: **10.0/10.0**

Pune, India

2013

Honors & Awards

2015 **All India Rank 1510**, Joint Entrance Examination Mains, 1.5 million candidates

India

2015 **All India Rank 1988**, Joint Entrance Examination Advanced, 150,000 candidates

India

2015 **All India Rank 857**, Kishore Vaigyanik Protsahan Yojana

India

2015 **Selected for INSPIRE**, Department of Science and Technology

India

Experience

IISER Pune

PROJECT UNDER PROF. SOUMEN MAITY github.com/smittal6/greedy-covering

Pune, India

December 2016 - Present

- Studied 'covering arrays' and their use in software testing.
- Studied and implemented density based greedy algorithm for generating covering arrays, in Octave.

Projects

Sentiment Analysis and Machine Learning

GITHUB.COM/SMITTAL6/SEBASTIAN-ML

IIT Kanpur

December 2016 - Present

- Followed Sebastian Raschka's book for a practical Python based approach on Machine Learning
- Implemented sentiment analysis on the Movie Review Imdb database, using the bag of words model
- Worked with Pandas, Numpy, Matplotlib and Sci-kit Learn

Markov Chains, Hidden Markov Models, Speech Recognition

COURSE PROJECT, PROF. NITIN SAXENA

IIT Kanpur

October 2016

- Read the paper by LR Rabiner and BH Juang
- Based on the paper, gave a talk on Markov Chains, HMM's and the three problems as discussed in paper

Extracurricular Activity

Counselling Service

STUDENT GUIDE

IIT Kanpur

July '16 - Present

- Personally helped 5 freshers adjust to the rigours of college life
- Assisted in conducting Orientation for more than 800 incoming students

Programming Club

SECRETARY

IIT Kanpur

Apr '16 - Present

- Assisted in organizing Freshers' Programming Contest in August '16
- Responsible for dissemination of information regarding summer projects offered by Programming Club

Indira National School

HEAD BOY

Pune, India

2012 - 2013

- Responsible for general discipline of the school
- Led a team of house captains and secretaries

Skills

Programming Python, C/C++
Web HTML, CSS (Bootstrap), Javascript (AngularJS, jQuery)
Utilities Git, Vim, Bash, Matlab/Octave, \LaTeX

Relevant Courses

Introduction to Programming
Linear Algebra & ODE
Abstract Algebra
Logic for Computer Science
Data Structures and Algorithms*
Computing Laboratory*

Complex Analysis
Partial Differential Equations
Discrete Mathematics
Real Analysis and Calculus
Computer Organization*
Probability and Statistics*

*: *Course in progress*

Miscellaneous

- My interests are Web development and Machine learning.
- I like to swim and play football.