Siddharth **Mittal**

THIRD YEAR UNDERGRADUATE · COMPUTER SCIENCE AND ENGINEERING
Indian Institute of Technology, Kanpur
☐ (+91) 7620910325 | ✉ sidm@iitk.ac.in | ⌂ home.iitk.ac.in/ sidm/ | ♠ smittal6

Education

Indian Institute of Technology Kanpur   *Kanpur, India*
BACHELOR OF TECHNOLOGY, COMPUTER SCIENCE AND ENGINEERING   *2015-2019 (Expected)*
- Cumulative Grade Point Average: **9.4/10.0**

Honors & Awards

2017	**Academic Excellence Award**, For exceptional academic performance for year 2015-16	*IIT Kanpur*
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

Indian Institute of Science   *Bangalore, India*
LEAP LAB, PROF. SRIRAM GANAPATHY   github.com/smittal6/leap-scd/   *May-July 2017*
- The goal was to develop a real time speaker change detection system
- Synthetic data set was created from TIMIT corpus
- Different models were proposed which used combinations of features and classifiers
- Experiments were carried out and reasonable accuracy was achieved on test set

Projects

Sentiment Analysis and Machine Learning   *IIT Kanpur*
GITHUB.COM/SMITTAL6/SEBASTIAN-ML   *December 2016-January 2017*
- 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   *IIT Kanpur*
COURSE PROJECT, PROF. NITIN SAXENA   *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   *IIT Kanpur*
STUDENT GUIDE   *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   *IIT Kanpur*
SECRETARY   *Apr '16 - Present*
- Assisted in organizing Freshers' Programming Contest in August '16
- Responsible for dissemination of information regarding summer projects offered by Programming Club

Skills

Programming	Python, C/C++, Keras
Web	HTML, CSS (Bootstrap)
Utilities	Git, Vim, Shell Scripting, R, Matlab/Octave, LaTeX

Relevant Courses

Introduction to Programming	Complex Analysis
Abstract Algebra	Discrete Mathematics
Data Structures and Algorithms	Computer Organization
Tools for Computing	Probability and Statistics (A*)
Operating Systems*	Intro to Machine Learning*
Theory of Computation*	

* : Course in progress, A* : For outstanding performance