Siddharth **Mittal**

JUNIOR UNDERGRADUATE · COMPUTER SCIENCE AND ENGINEERING
Indian Institute of Technology (IIT), Kanpur

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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   *Bengaluru, India*
LEAP LAB, PROF. SRIRAM GANAPATHY   github.com/smittal6/leap-scd/   *May-July 2017*
- The goal was to develop a speaker independent, 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

Smart Surveillance   *IIT Kanpur*
UNDERGRADUATE PROJECT (ONGOING), PROF. MEDHA ATRE   *August 17 - Present*
- Working on a model to detect anomaly based on feed from several surveillance cameras

NachOS   *IIT Kanpur*
COURSE PROJECT, OPERATING SYSTEMS (ONGOING), PROF. MAINAK CHAUDHARY   *August 17 - Present*
- Implemented syscalls for Fork, Exit, Exec, Sleep

Assorted Machine Learning   *IIT Kanpur*
SELF
- Created a neural network from scratch
- Implemented sentiment analysis on the Movie Review Imdb database, using the bag of words model
- Coded Generative Adversarial Network (GAN) in Tensorflow

Extracurricular Activity

Counselling Service   *IIT Kanpur*
STUDENT GUIDE   *July '16 - Apr '17*
- 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 - Apr' 17*
- Assisted in organizing Freshers' Programming Contest in August '16
- Responsible for dissemination of information regarding summer projects offered by Programming Club

Skills

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

Relevant Courses

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

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