

Siddharth Mittal

JUNIOR UNDERGRADUATE · COMPUTER SCIENCE AND ENGINEERING

Indian Institute of Technology (IIT), Kanpur

☎ (+91) 7620910325 | ✉ sidm@iitk.ac.in | 🏠 smittal6.github.io | 📱 [smittal6](#)

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)

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

LEAP LAB, PROF. SRIRAM GANAPATHY github.com/smittal6/leap-scd/

Bengaluru, India

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

Automatic Image Captioning

COURSE PROJECT, MACHINE LEARNING (ONGOING), PROF. PURUSHOTTAM KAR

IIT Kanpur

September 17 - Present

- Implemented model for captioning the images based on Show and Tell paper.
- Currently, we are experimenting with different architectures for the model.

Smart Surveillance

UNDERGRADUATE PROJECT (ONGOING), PROF. MEDHA ATRE

IIT Kanpur

August 17 - Present

- Working on a model to detect anomaly based on feed from several surveillance cameras

NachOS

COURSE PROJECT, OPERATING SYSTEMS (ONGOING), PROF. MAINAK CHAUDHARY

IIT Kanpur

August 17 - Present

- Implemented syscalls for Fork, Exit, Exec, Sleep
- Implemented standard Unix process scheduling algorithms

Assorted Machine Learning

SELF

IIT Kanpur

- 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

STUDENT GUIDE

IIT Kanpur

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

SECRETARY

IIT Kanpur

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, R, Matlab/Octave, \LaTeX

Relevant Courses

Introduction to Programming
Abstract Algebra
Data Structures and Algorithms
Probability and Statistics (A*)

Tools for Computing
Discrete Mathematics
Computer Organization
Operating Systems*

Linear Algebra & ODE
Logic for CS
Theory of Computation*
Intro to Machine Learning*

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