Siddharth Mittal

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

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

May-July 2017

LEAP LAB, PROF. SRIRAM GANAPATHY github.com/smittal 6/leap-scd/

- 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

IIT Kanpur

Course Project, Machine Learning, Prof. Purushottam Kar

github.com/smittal6/keras-captioning

Aug 17 - Nov 17

- Implemented model for captioning the images based on Show and Tell paper
- We are experimenting with different architectures, and also with inclusion of attention model

Smart Surveillance IIT Kanpur Aug 17 - Nov 17

Undergraduate Project, Prof. Medha Atre

- Aim was to detect anomaly based on feed from several surveillance cameras
- Obtained set of tags for a time frame using TensorFlow Object Detection API.
- Pools of tags are represented as vectors using GLOVE embeddings
- Score is calculated based on embeddings to detect anomaly

NachOS IIT Kanpur Aug 17 - Nov 17

Course Project, Operating Systems, Prof. Mainak Chaudhary

- Implemented syscalls for Fork, Exit, Exec, Sleep • Implemented standard Unix process scheduling algorithms - FIFO, Round Robin, Shortest Job First and UNIX scheduling to assess their relative performances
- Implemented page replacement algorithms like Random Page Allocation, FIFO, LRU and LRU Clock

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, R, Matlab/Octave, ETFX

Relevant Courses

Introduction to Programming Abstract Algebra Data Structures and Algorithms Probability and Statistics (A*) Tools for Computing Discrete Mathematics Computer Organization Operating Systems*

: Course in progress, A: For outstanding performance

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