SIDDHARTH VINOD NAIR

Email: siddharth17196@iiitd.ac.in, Skype: live:siddharthnair49

ID: 2017196, DOB: September 04, 1999

Education

Indraprastha Institute of Information Technology, Delhi B.Tech (ECE) 2017 – Present	CGPA: 7.95 (end of 6th sem) (7, 7.6, 8, 7.6, 7.9, 9)
DAV Public School Sreshtha Vihar, Delhi CBSE 2015 – 2017	Percentage: 95.8
Bharatiya Vidya Bhavan, Kolkata, West Bengal CBSE 2013 – 2015	CGPA: 10

Skills

Interest Areas	Machine/Deep Learning, Scripting
Programming Language	Python, Go, bash, C++(basic)
Libraries/Frameworks Worked on	Pytorch, Flask, OpenCV, keras, Tensorflow(beginner), BeautifulSoup
Tools and Technologies used	Git, Vim, Matlab, Arduino, Xilinx Vivado,

Internship

Research Intern   (May - July, 2020)
TCS Research and Innovation
Analyzing deep learning methods for the prediction of B-cell epitopes and antibody CDR regions and suggesting improvements.

Summer Internship (Detection of breakdown of buses)   (May – July,2019)
Guide: Dr Pravesh Biyani
Collection of data of DTC cluster buses along and analyzing the breakdown patterns in those buses.

Chintan Environmental Organization   (Jul, 2018)
Carried out surveys and awareness campaign for the discontinuation of single use plastic and waste segregation and disposal.

Projects

Voice Conversion   (Jan – April, 2020)
Speech Recognition final course project

Converting Non-parallel voices samples using
- Cepstral coefficients
- Cyclegan-vc2

Image Colorization   (Feb – May, 2020)
Deep learning final course project

Colorize black and white or grayscale images using deep
neural networks.

Snake Identification   (Sep – Dec, 2019)
Machine Learning final course project
AI Crowd - Snake Species Identification Challenge
- Using a DenseNet model for classification of snakes
- Deploying a web app to identify the species of these
  snakes.

Estimation of Fuel Wastage Due to Congestion caused   (August 2019 - Present)
by breakdown DTC cluster buses
Btech Project
- Collection of data of DTC cluster buses
- Detection of breakdown from GPS data using
  clustering and thresholding methods
- Estimation of fuel wastage due to breakdowns

Study on the FFT IP of Xilinx   (Dec 2018 – Jan 2019)

Exploring the various operations of the FFT IP with its various
modes and features so that it could be used on a large scale.

Road Monitoring System   (March - May, 2018)
IED course project
- Detecting the road conditions
- Measuring vehicle density accurately on roads and
- Displaying the information on a map.

Smart Lamp   (Jan - March, 2018)
IED course mini-project
An app-based lamp that:
- adjusts its distance to give optimum usage
- auto switch-on
- motion sensing abilities.

Positions of Responsibility

- Member of UAV club, AURORA that represents IIITD for AUVSI-   (2018 – Present)
  SUAS held annually at Maryland, USA
- Member of the Placement Committee   (2018 - 2019)

Awards and Achievements

6th position at the 17th annual AUVSI SUAS competition 2019 out of 75 international teams

Interests and Hobbies

- Writing scripts for random tasks and tinkering with my dotfiles.
- Playing Football and watching any sport.
- Reading Thrillers.

Declaration: The above information is correct to the best of my knowledge.
Siddharth Vinod Nair
Date: July 8, 2020