

# Siddharth Nair

LinkedIn | [siddharth17196@iiitd.ac.in](mailto:siddharth17196@iiitd.ac.in) | Github | Website

## PROFESSIONAL EXPERIENCE

### **Mobility and Optimization Lab | IIITD**

*Undergraduate Researcher*

05/2019 – present

- Collection of breakdown data of DTC cluster buses.
- Detection of breakdown solely using GPS data using clustering and thresholding methods.
- Estimation of fuel wastage due to breakdowns.

### **TCS Research**

*Research Intern*

05/2020 – 07/2020

- Reviewed deep learning methods for B-cell prediction and CDR structure prediction.
- Implemented recent sequence models and comparisons with the existing methods.
- Analyzed the use of attention and NLP mechanisms for protein-sequence prediction

## PROJECTS

### **Image Colorization**

*Course project for Deep Learning*

02/2020 – 05/2020

- Created a GAN based method with a modified loss function to colorize images.
- Assisted in creating a CNN based model.

### **voco.ai**

*Course project for Speech Recognition and Understanding*


01/2020 – 03/2020

- Lead the development of the Cycle-GAN based approach for non-parallel voice conversion
- Deployed a web-app that converts voice samples using GAN's trained on 4 different datasets (includes inter gender voice conversion)

### **snek.io**

*Course project for Machine Learning*

09/2019 – 12/2019

- Alcrowd challenge  for snake species identification
- Created metrics regarding data and developed a densenet model for identification.

## EDUCATION

### **Indraprastha Institute of Information Technology**

*Btech in Electronics and Communication Engineering*

08/2017 – 05/2021

Delhi, India

CGPA - 7.95/10.0

## SKILLS

### **Programming**

*python | C++ | SQL | Matlab | bash | Go | Java*

### **Tools/Technology**

*Git/Github | Machine Learning | Linux | Vim | Pytorch | webscraping*

## RESPONSIBILITIES

### **Student Mentor**

*Mentoring freshmen and helping with their academic/social issues.*

### **UAV-IIITD**

*Autopilot and Computer Vision Team*

### **Placement Committee**

*Placement representative for the ECE branch*

## AWARDS

### **6th place out of 75 international teams**

*17th AUSI SUAS, 2019*

## ORGANISATIONS

### **Chintan (Environmental Research and action group)**

*Volunteer*

*Awareness campaigns against use of single-use plastics.*