

# Jayesh Vasudeva

About Me | Blogs  
Mail me | 98998 03624

## EDUCATION

### NSUT

**BENG IN INSTR AND CONTROL**  
July 2018 | Dwarka, ND  
Cum. GPA: 7.4 / 10.0

### DPS, R.K. PURAM

Grad. May 2018 | ND, India  
Score(%age): 95.6% in PCM(CS)

## LINKS

Github:// [Jayesh\(0tist\)](#)  
LinkedIn:// [jayesh-vasudeva](#)  
Twitter:// [@VasudevaJayesh](#)

## COURSEWORK

### UNDERGRADUATE

AI techniques and Applications  
Signal and Systems  
Microprocessors  
Matrix calculus + Probability

(Research Asst.)

Glaucoma Detection and  
Segmentation(computer Vision)

### SIDE COURSES/MOOCs

Practical deep learning for coders(v4)  
AIET-IIT Hyderabad  
Intel Edge AI Scholarship Foundation  
Course

## SKILLS

### PROGRAMMING

Primary Skills:  
Python • C++ • Swift  
Matlab • Octave •  $\text{\LaTeX}$

Secondary Skills:  
C • Shell • Linux/Unix  
HTML • CSS

Familiar:

ionic • Assembly • MySQL

### MATHEMATICS & STATISTICS

Linear Algebra • calculus • Multivariate  
calculus  
Probability Distribution • optimization  
techniques

## POSITION OF

## RESPONSIBILITY

### CS CHAPTER CHAIR

IEEE-NSUT

## EXPERIENCE

### CNS, IISC | RESEARCH ASST.

Jan 2021 - Present | Bangalore, India

- Study about animal behaviour using state-of-the-art deep learning Techniques
- Implement Supervised and Unsupervised to analyze human annotated dataset and build methods to study data, in order to differentiate between different mice responses

#### Responsibilities:

Implement Computer Vision methods to monitor the movement of mice as we perform different experiments on them, like manipulating neural circuits

### IIT HYDERABAD | JUNIOR RESEARCH ASST.

Dec 2019 – May 2020 | Hyd, Telangana

- Top performer at AIET(2018), chosen to work under faculty @IIT H
- Study about various Adversarial Attack and Defense strategies on CNNs and Vanilla NNs
- Experimented with a variety of optimizers; e.g., COntinuous COin toss (COCO), CONLIN, etc.

#### Responsibilities:

Implement the existing adversarial attacks and defences to make the networks robust. Find measures to certify the robustness of the model.

## ACADEMIC PROJECTS

### KINSHIP DETECTION | VIGIL LAB - IITH | GITHUB

Worked with a group of experts from **VIGIL lab** to help Northeastern SMILE Lab detect similarity between faces of the blood-related people, for which we used siamese network.

Guided by **Nazil Perveen**

### TEXTVISARD | GITHUB

A unity based application, to help specially-abled people read and understand concept via visualisation and images, WE(Hackathon Team) used Unity's CV API to extract live text and later summarise it using huggingface transformers, followed by NER to obtain essential keywords to extract meaningful images from google image search API.

## AWARDS

2019	Winner	IBM Drone Challenge(Tello Drone)
2019	Scholarship	Intel Edge AI
2018	top 5/ 200	AIET - IIT Hyderabad
2017	Qualified	Zonal Computing Olympiad(New Delhi)
2020	Accepted book chapter	Applications of Computational Intelligence in Multi-Disciplinary Research

## PUBLICATIONS

- [1] J. Vasudeva, P. Rastogi, and J. Yadav. Glaucoma detection and segmentation as computer aided design: A review and study. In 2020 *IEEE 17th India Council International Conference (INDICON)* (INDICON2020), New Delhi, India, Dec. 2020.