

EDUCATION

International Institute of Information Technology, Hyderabad (IIIT-H) Aug 2016 - Present
Bachelor of Technology (Honors) in Computer Science & Engineering, CGPA: 7.92, Major: 8.35 Hyderabad, India

- *Research List* - in recognition of research contribution (2018-19)
- *Dean's Merit List* - top 20% of class (2018-19)

EXPERIENCE

Siemens May 2019 - Jul 2019
Research Intern, Perception Lab Bangalore, India

- Worked on the Intelligent Traffic Management project to detect and classify vehicles on Indian roads using CenterNet with a DLA34 backbone
- Made 2 submissions to the Vision Meets Drone challenge at ICCV 2019 - finished 5th in object detection in videos challenge, and 7th in object detection in images challenge using CenterNet with Hourglass104 backbone

Precog Aug 2018 - Present
Undergraduate Researcher, IIIT Delhi New Delhi, India

- Working with **Prof Ponnuram Kumaraguru ("PK")** on the project "Driving the last mile"
- Collected 6.4 million Snaps from 173 cities around the world
- First work to extend Lyng's edgework theory to social media

Centre for Visual Information Technology May 2018 - Present
Undergraduate Researcher, IIIT Hyderabad Hyderabad, India

- Working under **Prof C.V. Jawahar**
- Developed person detection and recognition module based on YOLOv3 for the Autonomous Robot project
- Developed a system that utilized multiple cues such as motion and sound to recognize events in a football match like goals, fouls, corners or substitutions for the Automated Football Analysis project

IIIT Hyderabad Aug 2018 - Present
Teaching Assistant Hyderabad, India

- For courses - Structured Systems Analysis Design & Project, Privacy & Security in Online Social Media, Big Data & Policing, and Real Analysis
- Responsibilities fulfilled include teaching, mentoring, preparing assignments, and evaluating projects

PUBLICATIONS

- Lamba, H., et al. Driving the Last Mile: Characterizing and Understanding Distracted Driving Posts on Social Networks. Proceedings of the 14th International AAAI Conference on Web and Social Media. 2020.
- Zhu, Pengfei, et al. "VisDrone-DET2019: The Vision Meets Drone Object Detection in Image Challenge Results." Proceedings of the IEEE International Conference on Computer Vision Workshops. 2019.
- Zhu, Pengfei, et al. "VisDrone-VID2019: The Vision Meets Drone Object Detection in Video Challenge Results." Proceedings of the IEEE International Conference on Computer Vision Workshops. 2019.

SKILLS

Machine Learning: PyTorch • ONNX • TensorRT • OpenVINO

Web Dev: React • Angular 4 • Flask • Gin

Design: Photoshop • Illustrator

Other: C • C++ • Python • Go • Matlab

SELECTED COURSEWORK

Artificial Intelligence: Statistical Methods in AI • Artificial Intelligence

Computer Vision: Computer Graphics • Digital Image Processing • Computer Vision

Social Computing: Privacy & Security in Online Social Media • Big Data & Policing

Systems: Operating Systems • Computer System Organization • Advanced Computer Networks

OTHER EXPERIENCE

Commercial Bank of Qatar

June 2017 - Jul 2017

Software Development Engineering Intern

Doha, Qatar

- Designed and developed new pages of the bank's mobile application

TRI3D

Aug 2017 - Nov 2017

Software Development Engineering Intern

Hyderabad, India

- Developed a "saree scanner" app to scan and auto adjust pictures of a saree

OTHER PROJECTS

Hate Speech Analysis

- Detected and analyzed hate speech on alt-right website Gab during the Pittsburgh synagogue shooting
- Built a model using logistic regression using L2 regularization

Bird-v-Drone

- Built a binary classifier to distinguish between birds and drones using Bag of Visual Words
- Classifier built using k-Nearest Neighbours with SIFT features

Bash

- Implemented a clone of the Bash terminal in C

Ultimate Tic-Tac-Toe Bot

- Developed the heuristic of a bot that plays Ultimate Tic-Tac-Toe on a 4x4x4x4 grid

Pacman Killer

- Developed a 2D replica of the Pacman Killer game in C++ using OpenGL

Legend of Zelda

- Developed a 3D replica of the Legend of Zelda game in C++ using OpenGL

Tunnel Rush

- Developed a 3D replica of the Tunnel Rush game in Javascript using WebGL

MISCELLANEOUS

Students' Parliament: Elected to the Parliament thrice from 2016-2018

Clubs Council: Secretary in 2018, Undersecretary in 2017

CMAC: Student liaison to the Campus Management & Advisory Council from 2016-2018

TEDx Hyderabad: Volunteer in 2016

IIIT-H MUN: Member of Organizing Committee in 2016-17

CCC: Volunteer for the Campus Canine-management Council from 2016-2018