

Ishan Deshpande

B. Tech Computer Engineering



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EDUCATION

B.Tech in Computer Science Engineering

Vishwakarma Institute of Information Technology/Pune

07/2018 - 06/2022

CGPA - 9.69/10

WORK EXPERIENCE

Software Development intern

Infineon Technologies

07/2021 - 05/2022

Tasks

- Research on vulnerabilities regarding privacy and security, present in Wi-Fi protocols
- Mitigation of the privacy risks present in MAC Randomization policies in Wi-Fi

Software Development intern

3DGuru Innovations Pvt. Ltd

01/2021 - Present

Tasks

- Building a block based visual programming IDE for STEM robotic kits
- Personal task: Development of cross platform Desktop application using Electron JS, lead the software team

Student Research Intern

VIIT, Pune

05/2019 - 08/2019

Tasks

- Develop an algorithm to estimate and map real time crowd density using image processing and implement it in python.
- Writing a research paper on the project.

ORGANIZATIONS

Developer students club, VIIT (09/2020 - Present)

Head of Web Development

Perception (Annual technical fest) (01/2019 - 03/2019)

Technical secretary

Knowledge Circle (08/2018 - Present)

Co-founder and Active member

MHRD Institute Innovation Cell (07/2019 - 07/2020)

Innovation team member

Sports Council, VIIT (07/2019 - 07/2020)

Table tennis head

Industry to Institute Interaction Cell, VIIT (07/2019 - 07/2020)

Computer department head

SKILLS

C++

C

Python

DBMS

Java

OS

OOP

Data structures

Algorithms

Flask

IEEE 802.11

Image Processing

Git

Shell scripting

Linux kernel

PROJECTS

Udaan: Reduction of dwell time at airports(This project was selected for Smart India Hackathon finale)

- Developed a backend with a **machine learning model, computer vision algorithms, multiprocessing, and multithreading modules in python**. Communication between apps and backend is done using **flask-api**

Rainfall prediction using machine learning

- A research project under Indian Meteorological Department (**IMD**) to predict the category (by volume) of rainfall for next day by using **machine learning** techniques

Crime prediction Web application

- Frontend: **HTML, CSS** | Backend: **python(flask)** | ML model used: **Xgboost** | Hosted on: **Heroku(PaaS)**

Traffic Management System

- A funded project with Pune Smart City project, ensuring smooth flow of traffic by dynamically controlling the traffic signals based on traffic density, which is determined using **computer vision** algorithms.

Cart-el: A web application for selling essential goods

- The project ensures social distancing by creating time slots for customers and minimizing wait times by sending the required items list in prior the shopkeeper. My role: server side development- **Java, Servlets (MVC architecture)**, Database- **Mongo DB**

Sign Language to Speech converter

- A glove which converts basic ASL alphabets to speech and text which is displayed on a mobile application. The sensors mounted on the glove are **self-made sensors**.

Food Adulteration Testing (FAT) Machine

- An automated food adulteration testing machine. **MCU: Arduino Mega, pumps: Peristaltic pumps** (self-made by 3d printing parts and stepper motors)

ACHIEVEMENTS

Finalist of Smart India Hackathon 2020 (02/2020 - 08/2020)

Selected among top 5 teams from all over India for SIH – largest hackathon in Asia.

Winner of COEP's MINSPARK paper presentation competition (09/2019 - 09/2019)

Won 1st prize for presenting the paper 'Crowd density mapping using image processing'

Winner of SciTech Competition (03/2019 - 03/2019)

Won 1st prize in Project competition SciTech organized by VIIT for project Food Adulteration Testing (FAT) machine.

INTERESTS

Problem solving

Web Dev

Guitar

Computer Vision

Table tennis

Cricket