

EDUCATION

PES University, RR Campus (B.Tech, Computer Science, 4th Sem)

2021-2025

CGPA: 8.32 3rd Sem SGPA: 9.00

Relevant Coursework: Digital Design and Computer Organization, Statistics for Data Science, Data Structures and Algorithms, Calculus, Linear Algebra, Design and Analysis of Algorithms, Computer Networks, Operating Systems, Microprocessor and Computer Architecture

EXPERIENCE

1) Software Developer

April 2023 – Present

IEEE Robotics and Automation Society (Internship)

Interned with IEEE RAS for the **Aid For The Blind** project. Developed a computer vision program that **enables text reading, object detection, face and emotion recognition, hand gesture recognition, and other features**. Utilised **speech-based mode selection** and **real-time audio feedback** for enhanced accessibility.

2) Research Team Lead

April 2023 – Present

IEEE CS Bangalore Internship & Mentorship programme (IAMPro)

Production of Depth Map for AI Generated Video Using Stable Diffusion (tentative paper title, research in progress). Working extensively with **Computer Vision, Image Processing and Deep Learning** algorithms.

3) Software Developer

Aug 2022 – Dec 2022

Cisco ThingQubator (Internship)

Worked as a Software Developer for **QuickWitted**, an **Ed-Tech startup** under **Cisco ThingQubator**, to develop key elements of their software. Worked extensively with **Google Drive API** and **Google Cloud API** to implement a portal for assignment submission.

PROJECTS

1) Polygraph Machine (Lie Detector)

2023

Sem 4 MPCA Mini-Project

- Built a polygraph machine that uses **advanced algorithms and real-time data streams** from **multiple physiological indicators** to accurately detect when a person is lying.
- Plots live data** such as heart rate, body temperature, and perspiration level to determine a spike in readings.

2) Image Processing Of Mathematical Graphs

2022

Arithemania 2022 (30 Hour Hackathon)

- Developed a program that takes 2D graphs as input in real time and produces the equation of the graph using **image processing**.
- Placed **top 10** in Arithemania 2022. Implemented **HoughLinesP's algorithm**.

3) Hotel Reservation Website

2022

Sem 3 Web Tech Mini-Project

- Developed a Hotel Reservation Website using **MERN stack** with 7 web pages.
- Implemented **admin and client application** including adding hotels and booking rooms which also calculate the total price of booking room over the selected period of time.
- Used JWT and cookie parser api for **encryption of passwords**. Worked extensively with Insomnia for server **request-response validation**.

TECHNICAL SKILLS

Programming Languages: Python (OpenCV, SciPy, PIL, Pytorch, Pygame), C++, C**Web Development:** HTML5, Bootstrap, Javascript, CSS, MongoDB, Node.js, React.js, Expressjs, Aframe, AR.js**Data Science:** Matplotlib, NumPy, MATLAB, Pandas, Seaborn**Tools and Software:** Insomnia, Git

EXTRACURRICULARS

Taekwondo (Korean Martial Art): International level Gold, Silver and 2x Bronze medalist, State level Gold and Bronze medalist, Black Belt. **Karate (Japanese Martial Art):** National level Gold medalist