

## EDUCATION

<b>PES University, RR Campus</b> (B.Tech, Computer Science, 5th Sem) CGPA: 8.44      3rd Sem SGPA: 9.00      4th Sem SGPA: 8.82	<b>2021-2025</b>
<b>Deeksha Center For Learning</b> (PCMC) 2nd PU Board Exam: 99.75%	<b>2019-2021</b>
<b>Delhi Public School Bangalore, South</b> 10th Standard Board Exam: 93.34%	<b>2009-2019</b>

## EXPERIENCE

### Data Scientist Intern Jun 2023 – Aug 2023

Accure Inc. (accure.ai)

- Developed a model to predict printed and handwritten for scanned documents in collaboration with Axis Bank and did postprocessing to achieve 92% accuracy.
- ML model: SSD, LSTM, Momentum (proprietary tool for Data modelling)

### Software Developer Intern May 2023 – Aug 2023

Centre For Robotics, Automation And Intelligent Systems (cRAIS)

- Spearheaded the development of Aid For The Blind, a wearable device that helps visually impaired people with their day-to-day needs. Implemented a speech interface based program for reading text, object detection, face and emotion recognition, hand gesture recognition, navigation, traffic sign recognition, image captioning, etc onto a Jetson Nano.
- ML model: SSD using AlexNet, GoogleNet, ResNet, VGG, and Inception classification models with 90% accuracy. Working on a research paper for our novel approach to using Depth Maps for navigation with audio output.

### Research Team Lead Apr 2023 – Sep 2023

IEEE CS Bangalore Internship & Mentorship programme (IAMPro)

- Production of Depth Map of AI Generated Video Using Stable Diffusion (tentative paper title). Worked extensively with Computer Vision, Image Processing and Deep Learning algorithms. Worked extensively with MiDaS, Zoe Depth, LeRes, etc for monocular depth estimation. Research Supervisor: Prof. Ashwini V R (WiE Chair Elect 2023 IEEE)

### Backend Software Developer Intern Aug 2022 – Dec 2022

Cisco ThingQubator

- Worked as a Software Developer for QuickWitted, an Ed-Tech startup under Cisco ThingQubator, to develop key elements of their software. Developed portal for assignment submission.
- Worked extensively with Google Drive API and Google Cloud API to implement a portal for assignment submission. Improved the time and space efficiency of submission of documents without it consuming space in the database and being directly accessible by the teachers in their google drive.

### Augmented And Virtual Reality Web Developer Intern Sep 2020 – Dec 2020

VizardLab

- Interned for 12 weeks at Vizard Lab, a startup by a student at University of California Los Angeles, for web-based AR/VR development. Deployed a marker-based augmented 3D model on their website with cross-platform support.
- Javascript frameworks: AR.js and Aframe

## PROJECTS

### Image Processing Of Mathematical Graphs

**Arithemania (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. Implemented HoughLinesP's algorithm in code. Placed in top 8.
- ML Model: SVM (89% accuracy); Languages used: Python with OpenCV, Pyplot, NumPy, Pandas, Matplotlib, Sklearn

### Hotel Reservation Website

**Web Tech Project**

- Developed a Hotel Reservation Website using MERN stack. 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.
- Languages used: HTML5, React.js, Node.js, Express.js; Database: MongoDB; Software: Insomnia

### Compressor and Decompressor for Text Files

**C++ Project**

- Achieved a 75% compression on text files using Huffman encoding algorithm. Implemented a novel approach to compression by storing Huffman Table in the compressed file which allows decompression even after program's termination.

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, C

**Web Development:** HTML5, Bootstrap, Javascript, CSS, MongoDB, Node.js, React.js, Expressjs, Aframe, AR.js

**Data Science:** Matplotlib, NumPy, MATLAB, Pandas, Seaborn

**Machine Learning:** PyTorch, TensorFlow, Scikit-learn, Keras

**Tools and Software:** Vott, Insomnia, Git

## EXTRACURRICULARS

**Taekwondo:** International level Gold, Silver and 2x Bronze medalist, Black Belt || **Karate:** National level Gold medalist