

EDUCATION

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

EXPERIENCE**Data Scientist Intern | Accure Inc. (accure.ai)** Jun 2023 – Aug 2023

- Developed a model to predict printed and handwritten for scanned documents in collaboration with Axis Bank and applied postprocessing to achieve 92% accuracy.
- ML model: SSD (ROI Detection), LSTM (OCR); Tools: Momentum (proprietary tool for data modelling and analysis)

Software Developer Intern | Centre For Robotics, Automation And Intelligent Systems May 2023 – Aug 2023

- Led the end-to-end development of 'Aid For The Blind,' a wearable device empowering visually impaired individuals. Engineered a comprehensive suite of functionalities encompassing text-to-speech, object detection, emotion recognition, and navigation, achieving 90% accuracy through rigorous implementation of SSD models (AlexNet, GoogleNet, ResNet, VGG, Inception).
- Spearheading a pioneering research paper leveraging Depth Maps for audio-guided navigation, poised to revolutionise accessibility solutions for the visually impaired.

Research Team Lead | IEEE CS Bangalore Internship & Mentorship programme Apr 2023 – Sep 2023

- Feature Correction Of Reflective Surfaces For Depth Estimation Models Using Stable Diffusion (tentative paper title). Worked extensively with Computer Vision, Image Processing and Deep Learning algorithms.
- Utilised MiDaS, Zoe Depth, LeRes, etc for monocular depth estimation.
Research Supervisor: Prof. Ashwini V R (IEEE WiE Chair Elect 2023)

Backend Software Developer Intern | Cisco ThingQubator Aug 2022 – Dec 2022

- Worked extensively with Google Drive API and Google Cloud API to implement a portal for assignment submission for an ed-tech startup under Cisco.
- Optimised document submission processes, reducing database footprint while enabling seamless access for teachers via Google Drive, resulting in a 40% cost-saving in storage expenses.

Augmented And Virtual Reality Web Developer Intern | VizardLab Sep 2020 – Dec 2020

- 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**Stock Price Prediction** Data Analytics Project

- Used SARIMAX and XGB-Regressor to get an SMAPE score of 0.0153 for forecasting stock Closing Price. Implemented Ensemble Voting Classifier integrating Random Forest, XGBoost, and Gradient Boosting models for buy, sell, or hold strategy classification, achieving an 85% accuracy.
- Performed feature engineering to get RSI, Exponential Moving Average, Price Change values to increase accuracy by 40%.
- Modules used: Statsmodels.api, Pyplot, NumPy, Pandas, Seaborn

Portfolio Management System DBMS Project

- Developed an interactive frontend and a database that fetches live stock market data using Yahoo Finance API.
- Users can buy and sell stock based on live data and profit/loss values are calculated based on the transaction history maintained in the database. Suggested stocks to users to invest in based on its performance. Languages used: Flask, SQL

Image Processing Of Mathematical Graphs Arithemania (Hackathon)

- Developed a program that takes 2D graphs as input through the camera and produces the equation of the graph using image processing. Implemented HoughLinesP's algorithm. Placed in top 8 of the hackathon.
- ML Model: SVM (89% accuracy); Languages used: Python with OpenCV, Pyplot, NumPy, Pandas, Matplotlib, Sklearn

Music Genre Classification AIML Hackathon

- Used LSTM and ANN to predict the genre of music provided a data set of 60 feature sets.
- Performed pre and post processing to find the best features to predict the genre to get 83% accuracy.

TECHNICAL SKILLS**Programming Languages:** Python, C++, C**Web Development:** HTML5, Bootstrap, Javascript, CSS, MongoDB, Node.js, React.js, Expressjs, Aframe, AR.js, Flask**Data Science:** Matplotlib, NumPy, MATLAB, Pandas, Seaborn, Statsmodels.api**Machine Learning:** PyTorch, TensorFlow, Scikit-learn, Keras**Tools and Software:** Vott, Insomnia, Git, SQL**EXTRACURRICULARS****Taekwondo:** International level Gold, Silver and 2x Bronze medalist, Black Belt || **Karate:** National level Gold medalist