MANI VARSHITH VANGA

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Professional Summary

Computer Science student with hands-on experience in AI, machine learning, and web development. Passionate about leveraging AI and technology to solve real-world problems, including AI-driven drowsiness detection and neural network-based digit recognition. Strong foundation in data structures, algorithms, and full-stack development.

Education

Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India
B.Tech in Computer Science and Engineering   November 2022 – July 2026
Alphores Junior College, Karimnagar, India
Class XII, MPC   June 2021 – May 2022
Alphores High School, Karimnagar, India
Class X   June 2019 – March 2020

Skills

Programming Languages: Java, Python, C, SQL, JavaScript,C++
Web Development: HTML, CSS, ReactJS, NodeJS
Technical Skills: DBMS, Operating Systems, Data Structures and Algorithms
Tools: GitHub, VSCode, Google Collab.

Projects

Drowsiness Detection and Prevention System

- Developed a drowsiness detection system using AI and IoT, achieving 99% accuracy in detecting early signs of drowsiness, preventing accidents by automatically stopping the vehicle
- **Technologies used:** Machine Learning (CNN), AI(ONNX model), Computer Vision (OpenCv),IoT(Arduino).

Handwritten Digit Recognition using Neural Networks

- Developed a machine learning model using CNN model and TensorFlow to classify handwritten digits from the MNIST dataset with high accuracy.
- **Technologies Used:** TensorFlow, Keras, Python, CNN, MNIST Dataset, NumPy.

Certifications

- Introduction to Artificial Intelligence – Infosys Springboard.
- Mobile App Development using Flutter – Infosys Springboard.
- Data Science for Engineers (NPTEL)

Soft Skills

- Creative and Collaborative
- Effective Communication
- Problem Solving and Critical Thinking
- Adaptability and Continuous Learning

Extracurricular Activities

- Volunteered at T-hub for Maker Faire Hyderabad in 2023.
- Logistics Head, Entrepreneurship Cell (E-Cell), GRIET.
- Managing finances for the Literary Club of my college.
- Core Member, Street Cause Hyderabad (NGO).