MANI VARSHITH VANGA

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Website: portfolio-website

Professional Summary

Computer Science student with practical experience in AI, Machine Learning, and Full-Stack Development. Built AI-driven drowsiness detection system and digit recognition model. Strong foundation in data structures, algorithms, and software engineering.

Education

Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India
B.Tech in Computer Science and Engineering, CGPA: 8.06 November 2022 – July 2026

Alphores Junior College, Karimnagar, India
Class XII, MPC, Score: 94% June 2021 – May 2022

Alphores High School, Karimnagar, India
Class X, Score: 98% June 2019 – March 2020

Skills

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

Experience

Project Lead – AI Development (Drowsiness Detection System)

- Spearheaded the development of a real-time AI driver monitoring system that achieved 99% accuracy.
- Directed a 4-member team, ensuring timely delivery.
- Integrated IoT-based Arduino module for automatic vehicle slowdown, enhancing road safety.

Project Lead – ML Development (Digit Recognition System)

- Mentored peers in machine learning fundamentals, fostering collaboration and skill growth.
- Guided the end-to-end execution of a CNN-based digit recognition model using TensorFlow.
- Successfully delivered the project within schedule while promoting collaboration and efficiency.

Projects

Drowsiness Detection and Prevention System [GitHub]

- Developed a drowsiness detection system using AI and IoT, achieved 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 [GitHub]

- Developed a machine learning model using CNN and TensorFlow that classified handwritten digits from the MNIST dataset with 97% 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
- Data Analytics with Python – NPTEL

Extracurricular Activities

- Volunteered at **T-Hub for Maker Faire Hyderabad (2023)** – supported event logistics and hospitality, demonstrating collaboration and teamwork.
- **Logistics Head, Entrepreneurship Cell (E-Cell), GRIET** – coordinated large-scale events, showcasing leadership and organizational skills.
- Managed finances for the **Literary Club**, ensuring proper budgeting and accountability.
- **Core Member, Street Cause Hyderabad (NGO)** – contributed to community initiatives, highlighting adaptability and social responsibility.