

GUDI VISHNU TEJA

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Education

Amrita Vishwa Vidyapeetham

Bachelor of Technology - Computer Science and Engineering (Artificial Intelligence)

Sep 2021 – May 2025

Chennai, Tamil Nadu

Skills

Programming Languages: Python, SQL, JavaScript, HTML/CSS.

Frameworks & Libraries: TensorFlow, PyTorch, Keras, OpenCV, Scikit-learn, React.js, Node.js, Express.js.

Databases & Tools: MongoDB, Firebase, MySQL, PostgreSQL, MATLAB, Git/GitHub, Docker.

Core Competencies: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems.

Experience

AI Intern

Dec 2024 – Jan 2025

Artificial Intelligence and Data Analytics, AICTE – Shell India Markets Pvt. Ltd.

Remote

- Advanced from basic data preprocessing to developing comprehensive eye disease detection system using CNNs (ResNet, VGG) and ML models (SVM, ELM) on 4,000+ retinal images.
- Mastered DAX programming and optimized model performance, delivering 12% improvement within 3 weeks.
- Promoted to present final healthcare AI model (92% classification accuracy) to industry experts and Shell leadership team.
- Recognized for exceptional learning curve, mastering TensorFlow and PyTorch frameworks within 4 weeks of internship start.

Projects

Computer Vision Developer (Project) — AI-Based Smart Accident Detection System

Nov 2024

- Engineered a real-time accident detection system to improve emergency responsiveness by analyzing CCTV traffic footage using deep learning.
- Trained YOLOv5/YOLOv8 models on over 2,000 annotated video frames for high-precision crash detection.
- Reduced false positives by 35% by applying temporal filtering and object motion tracking.
- Achieved 89% precision in accident identification and reduced emergency response time by 40%.

Full Stack Developer (Project) — Job Now Web Platform

Jun 2024

- Designed and deployed a web application that connects job seekers with recruiters to simplify job searching and hiring processes.
- Built using the MERN stack (MongoDB, Express, React, Node.js) for frontend and backend development.
- Implemented secure user authentication using JWT and stored data in MongoDB Atlas.
- Deployed the application on AWS EC2 using Docker for reliable cloud hosting.

Reinforcement Learning Engineer (Project) — Traffic Signal Control System

Dec 2023

- Built adaptive traffic light control system using Deep Q-Network (DQN) to optimize urban intersection traffic flow.
- Simulated 4-way intersection traffic in SUMO with real-time feedback through TraCI and OpenAI Gym.
- Implemented custom reward functions, experience replay, and epsilon decay to enhance agent training across 10,000+ episodes.
- Achieved 28% reduction in vehicle waiting time and 22% shorter queue lengths compared to fixed-timing controllers.

Publications

• 14th International on Cloud Computing, Data Science & Engineering

Jan 2024

Paper: Deep Learning Based Calorie Estimation in Indian Food

• International Conference on Advances in Electronics, Computers and Communications

Sep 2023

Paper: Stroke Prediction Using Machine Learning

Certifications

- AWS Cloud Technical Essentials (AWS)
- Data Science (Coursera)
- People and Soft Skills for Professional and Personal Success (Coursera)
- TCS Master Craft Data Plus (TCS iON)

Achievements

- Special appreciation in Code in Unknown Language at Tantrotsav
- Finalist in Smart Digital Hackathon

Jun 2023

Oct 2022