DHEERAJ AMARAVADI

Apparala, Telangana | (+91)9849686833 | amaravadidheeraj@gmail.com

https://www.linkedin.com/in/amaravadi-dheeraj/ | https://github.com/AMARAVADIDHEERAJ

CAREER OBJECTIVE

Passionate Computer Science undergraduate driven by technology, motivated to deliver innovative solutions to real-world problems. Excellent skill set in time management, communication and prioritization. Eager to collaborate effectively, make significant contributions and continuously expanding my skill set and expertise.

WORK EXPERIENCE

Software Quality Engineer | Tektronix | April 2025 – Present

- Contributing to the software testing process by writing test code in C# to validate oscilloscope waveform functionality and behavior. Familiar with company tools, processes, and development environment, and collaborating closely with team members to understand project requirements and testing workflows.

Junior Developer | ILaqa Technologies (Remote) | July 2024 – February 2025

- Developed and maintained APIs using Node.js, collaborated on database solutions with MongoDB, and enhanced application performance and scalability, contributing to improved system efficiency.

Freelance Remote LLM Trainer & Coding Expert | Outlier.ai (Remote) | May 2024 – June 2024

- Contributed to training generative AI models by evaluating and ranking code, crafting computer science questions, and providing detailed feedback on AI-generated code in Python to ensure accuracy and efficiency.

PROJECTS

Crop Recommendation System

- Built a 97% accurate ML model predicting suitable crops based on soil and environmental parameters.
- Utilized Random Forest, Decision Tree, Logistic Regression, and Gaussian Naive Bayes algorithms.
- Tech Stack: Python, Scikit-learn, Flask
- GitHub: https://github.com/AMARAVADIDHEERAJ/Crop-Recommendation-System

ECGNET: A Deep Learning Approach for Rapid Arrhythmia Classification

- Designed a 2D CNN model with data augmentation to classify ECG signals.
- Achieved 95.3% accuracy, reducing false positives in arrhythmia detection.
- Tech Stack: Python, TensorFlow, Flask, OpenCV
- GitHub: https://github.com/AMARAVADIDHEERAJ/Enhanced-Arrhythmia-Detection-System-Using-ECGNet

Network Intrusion Detection System

- Developed a deep learning-based IDS using 1D CNN and Adam optimizer.
- Balanced imbalanced datasets using SMOTE and achieved 98.59% accuracy.
- Tech Stack: Python, TensorFlow, Pandas, NumPy
- GitHub: https://github.com/AMARAVADIDHEERAJ/Network-Intrusion-Detection-System-Using-Deep-Learning

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL
Tools & Technologies: Node.js, Oracle SQL, MongoDB, Postman(API Testing), Git, POWER BI
Core Competencies: Data Structures, Algorithms, Object-Oriented Programming, Machine Learning, Artificial Intelligence

CERTIFICATIONS

- Oracle Cloud Infrastructure 2024 Generative AI Professional | Oracle | certification
- Intermediate Machine Learning (Kaggle Certification) | certification
- 30 Days of Google Cloud Program | GCP | GCP Profile

EDUCATION DETAILS

B. Tech | CSE with specialization in Artificial Intelligence and Machine Learning | 2020 - 2024
Vellore Institute of Technology, Chennai | **CGPA: 7.76**