

# DHEERAJ AMARAVADI

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## CAREER OBJECTIVE

Passionate Computer Science graduate 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**