

# DHEERAJ AMARAVADI

VIT University | B. Tech CSE with specialization in AI and ML

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 [LinkedIn](#) |  [GitHub](#) |  [LeetCode](#)

## 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.

## EDUCATION DETAILS

**B. Tech | CSE with specialization in Artificial Intelligence and Machine Learning | 2020 - 2024**

Vellore Institute of Technology, Chennai | **CGPA: 7.76**

**Intermediate | MPC | 2018 – 2020**

Narayana Junior College, Hayathnagar, Hyderabad | **Percentage: 96.7%**

**Secondary School**

Gurukul Vidyapeeth High School, Ibrahimpatnam, Hyderabad | 2018 | **GPA: 9.5**

## WORK EXPERIENCE

**Python Developer | Techplement (Remote) | April 2024 – May 2024**

➤ Developed a Python project for object recognition and classification using OpenCV and TensorFlow, enhancing image processing capabilities.

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, Java, SQL, JavaScript, HTML

**Tools & Technologies:** POWER BI, Figma, Oracle SQL, MongoDB, Git

**Core Competencies:** Data Structures, Algorithms, Object-Oriented Programming, Machine Learning, Artificial Intelligence

## PROJECTS [GitHub](#)

**Crop Recommendation System:** Developed a 97% accurate machine learning model using Python to predict suitable crops based on comprehensive analysis of soil parameters and environmental factors, integrating decision tree, random forest, logistic regression, and Gaussian Naive Bayes algorithms.

**Network Intrusion Detection System:** Engineered a deep learning model consisting of stacked Convolution1D and Maxpooling1D layers with Adam Optimizer to detect network intrusions and notify administrators, achieving a high accuracy rate of 98.59%.

**ECGNET: A Deep Learning Approach for Rapid Arrhythmia Classification:** Created a deep learning model using 2D CNN with data augmentation to predict arrhythmia diseases using ECG signals, integrated with a Flask application, achieving 95.3% accuracy rate.

**Lane Line Detection:** Developed an AI multistage system using Hough transform and Canny Edge detection algorithm to detect lanes on the road, ensuring safe driving.

**Online Grocery Sale and Delivery:** Constructed a robust SQL database for an e-commerce platform for grocery ordering, implemented with HTML, CSS, and PHP.

**Telecom Customer Retention Prediction System:** Designed an interactive Power BI dashboard and a 96.2% accurate predictive model to forecast customer retention, utilizing Business Intelligence and RMSPROP technology.

**Automatic Early Fire Detection System Using Deep Learning:** Devised a wireless fire detection system using GoogLeNet inspired inception network and Python to achieve fast and accurate fire detection with a 96% accuracy rate.

## CERTIFICATIONS & ACHIEVEMENTS

- **Building Web Applications in PHP**, [certification](#)
- Created a **Mobile App** with Google Sheets on **Glide**, [certification](#)
- **Salesforce Administrator Certification** | PreludeSys Academy
- Achieved **Spoken Tutorial IIT Bombay Certification in C, C++, Python**
- 30 Days of Google Cloud Program | GCP | [GCP Profile](#)
- Python Course (Kaggle Certification), [certification](#)
- Intermediate Machine Learning (Kaggle Certification), [certification](#)
- Participated in National Level Hackathon: Sustainable Energy
- **Best NSS Volunteer Award 2022-23 from the Government of India**

## EXTRA-CURRICULAR ACTIVITIES & HOBBIES

- **Secretary and Volunteer in National Service Scheme (NSS) | 2021 – 2023**
- Provided Strategic Direction: Set monthly goals and led 3 committees comprising over 300 students, organizing awareness sessions, rallies, and events, including a 7-day camp in a village.
- Organized Training and Camps: Assisted new volunteers with skill development training and managed a 7-day NSS special camp for over 100 students, conducting community service activities like medical camps, rallies, and plantation drives.
- Passionate about Web Designing