

# G.Muralidhar Reddy

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## EDUCATION

### Amrita Vishwa Vidyapeetham

Bachelor of Engineering in Information Technology

Chennai, India

Oct. 2022 – May 2026

### Sri Chaitanya Junior College

State Board of Secondary Education - Math, Physics, Chemistry

Hyderabad, India

Aug. 2020 – May 2022

## PROJECTS

### Brain Tumor Classifier | Ensemble Learning, Flask, Python, Javascript

October 2024

- Built a multi-model classification system using Artificial Neural Networks(ANN), Convolutional Neural Networks(CNN), and EfficientNetB0 with ensemble learning, achieving 97% accuracy.
- Deployed a Flask app for real-time brain tumor classification (glioma, meningioma, pituitary, no tumor).
- Created an intuitive interface for medical image uploads and descriptive results presentation.
- Focused on practical healthcare solutions, aiding medical professionals in diagnostics.

### Student Management System | Flask, MySQL, JavaScript

August 2024

- Created a web-based application for managing student attendance and academic records with Flask and MySQL.
- Implemented a clean JavaScript-powered frontend for seamless data display and interaction.
- Improved database design by resolving conflicts, such as renaming the triggers log table.
- Focused on simplicity and usability to enhance administrative efficiency in student record management.

### Detection of Vehicle Anomalies | Machine Learning, Data Analysis, Visualization

March 2024

- Analyzed vehicle anomalies using machine learning to detect unusual noises, temperatures, and vibrations.
- Achieved 96.52% accuracy with Random Forest and 97.12% with Logistic Regression.
- Applied data visualization to uncover trends and provide actionable insights for predictive maintenance.
- Provided insights for predictive maintenance and vehicle performance optimization.

### Ultrasonic Radar System for Object Detection | Arduino IDE, Arduino UNO

December 2023

- Developed an Arduino-based ultrasonic radar system for object detection with HC-SR04 sensors and servo motor.
- Programmed Arduino UNO to calculate object distance using ultrasonic wave travel time.
- Created a Processing GUI for real-time object detection visualization.
- Designed for robotics, vehicle safety, and security with future LiDAR and ML integration.

## TECHNICAL SKILLS

**Languages:** Java, Python, C, MySQL, HTML/CSS.

**AI/ML:** Machine Learning, Neural Networks, ANN, CNN, Computer Vision, NLP.

**Tech:** Data Structures, Algorithms, OOPS, Computer Networks, Git, GitHub.

**Frameworks:** Tensorflow, Keras, Scikit-learn, Seaborn, Pandas.

**Developer Tools:** Git, Docker, AWS, VS Code, Visual Studio, PyCharm, IntelliJ

**Libraries:** pandas, NumPy, Matplotlib

## ACHIEVEMENTS

- 3rd Place in the Forensic Investigation Challenge at Tantrotsav'23, organized by Amrita Vishwa Vidyapeetham, Chennai.
- Solved 200+ LeetCode questions, earned 4 badges, and completed 150+ problems on Geeks for Geeks and CodeChef.
- Obtained certifications in Java for Programmers and Python Django for Beginners from Udemy and DeepLearning.AI, achieving high scores.
- Participated in the Shastra Hackathon, an annual technical festival organized by IIT Madras, featuring a variety of engineering, science, and technology competitions.