Madhumitha K

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github.com/madhu-krishnamurthy03

Objective

Motivated **Artificial Intelligence and Machine Learning student** with strong foundations in Python, machine learning, and full-stack development. Seeking opportunities to apply analytical, problem-solving, and development skills in AI/ML, Data Engineering, and Software Development roles.

Education

Rajalakshmi Engineering College, Chennai   2022–2026
B.Tech — Artificial Intelligence and Machine Learning
CGPA: 8.75 / 10

Senthil Matric Hr. Sec. School, Dharmapuri
12th Grade — 96.5%   2022
10th Grade — 98.2%   2020

Technical Skills

Programming Languages: Java, Python, C
Core Concepts: OOPs, DSA, Operating Systems, DBMS, CN
AI/ML Techniques: CNN, Decision Trees, Random Forest, SVM, NLP
Databases: MySQL, MongoDB
Version Control: Git, GitHub
Tools: VS Code, Postman, Figma (UX Design)

Internships

InternPe — Web Development Intern   Feb–Mar 2024
Developed basic web applications including a **to-do list**, **puzzle checker**, and **e-commerce webpage**. Strengthened fundamentals of HTML, CSS, JavaScript, responsive UI design, and client-side validation.

MAT-G TECH — Full Stack Developer Intern   Jun–Jul 2024
Worked on both frontend and backend of dynamic web applications and maintained a report and learned good insights. Gained practical exposure to full-stack workflows and team collaboration.

Projects

Crop Recommendation and Analysis System — Python, Scikit-learn
Developed a machine learning model to recommend suitable crops based on soil nutrients, temperature, rainfall, and humidity. Implemented a Flask-based web dashboard with clean data visualizations for decision support.

Food Recommendation System — Python, ML, Flask
Built a content-based food recommendation system using nutritional attributes and user preferences. Integrated the model with a web interface to deliver personalized food suggestions.

Image Classification System — TensorFlow, CNN
Designed and trained a convolutional neural network for image recognition tasks. Optimized model accuracy through preprocessing, data augmentation, and efficient training pipelines.

Driver Drowsiness Detection System — OpenCV, TensorFlow
Implemented real-time eye-blink and yawning detection using OpenCV and CNN to identify driver fatigue and trigger alerts, improving road safety.

Freelancing Marketplace Platform — Flask, Firebase, Razorpay
Developed a secure full-stack freelancing platform with user authentication, role-based access, and encrypted online payments using Razorpay. Integrated AI-based recommendations and an admin dashboard for platform monitoring.

Certifications

Machine Learning Essentials — LinkedIn Learning
Big Data Fundamentals — LinkedIn Learning
NPTEL — Cloud Computing
NPTEL — Affective Computing
MongoDB Basics — ICT Academy
Core Employability Skills — Wadhwani Foundation

Achievements & Leadership

1st Rank — AIML Department (4th & 5th Semester)
Secured first position based on academic performance.

Poster Presentation Coordinator — AIML Symposium 2023
Managed event coordination, participant handling, and smooth execution.

Lead Member — Enactus Club (Content Creator)
Designed posters, created content, and supported outreach initiatives.