Madhumitha

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in https://www.linkedin.com/in/madhumitha-u-mca/ https://github.com/madhumithaudhaya 🌐 https://www.geeksforgeeks.org/user/madhumithaudhaya64/

<> https://leetcode.com/u/Madhumitha_U/ 📁 https://madhumithaudhaya-portfolio.netlify.app/

Professional Summary

Recent MCA graduate from Anna University with a solid foundation in AI, Full-Stack Development, and Python. Proficient in building scalable AI systems, Android apps, and big data solutions through hands-on projects. Seeking a software development role to contribute expertise in AI-powered systems and cloud technologies.

Professional Experience

Frontend Developer Intern · TRIOS Virudhunagar · Sep 2022 - Dec 2022

- Developed and optimized UI components using Git for version control.
- Contributed to front-end performance analysis and bug fixes.

Robotics Tutor · Eduseed Virudhunagar · Jan 2022 - Sep 2022

- Mentored 50+ students in Python programming for robotics projects.
- Customized learning plans based on student proficiency.

Projects

ZenBot - AI Mental Healthcare Chatbot · Nov 2024 - Apr 2025

https://github.com/Madhumithaudhaya/zenbot-ai-chatbot

RAG DistilRoBERTa FAISS MongoDB Flask

- Built an AI-powered chatbot using Retrieval-Augmented Generation (RAG) for personalized mental health support.
- Integrated DistilRoBERTa for sentiment analysis and FAISS for semantic search.
- Stored chat history in MongoDB via Flask backend.

IoT-Based Food Monitoring System May 2024 - Sep 2024

Sensors Automated DC Motor

- Designed a food safety system using sensors to detect gas/temperature thresholds.
- Automated DC motor activation for real-time alerts.

Crop Yield Prediction Using Big Data May 2023 - Sep 2023

Machine Learning

- Built a scalable ML model to predict crop yields on large datasets.

Online Food Ordering App · Jan 2024 - Apr 2024

https://github.com/Madhumithaudhaya/online-food-ordering-app

Firebase

- Developed an app with tax/delivery calculation logic using Firebase backend.

Women Safety App · Jan 2022 - Apr 2022

https://github.com/Madhumithaudhaya/women-safety-app

- Developed a mobile application to enhance women's safety with features such as emergency SOS alert, live location tracking, and quick-contact dialing.
- Integrated real-time GPS and Firebase for storing user data and emergency contacts.

Education

Master of Computer Applications ·   7.2 · Jul 2022 - May 2025
College of Engineering Guindy, Anna University

Bachelor of Computer Applications · VHNSN College   7.7 · Jun 2019 - May 2022

Skills

Programming Languages

Python Java C/C++

Databases

SQL MySQL MongoDB Firebase

AI Technologies

Hugging Face Transformers RAG FAISS DistilRoBERTa TinyLlama PyTorch Machine Learning

Tools

VS Code Jupyter Notebook Google Cloud Git Android Studio AWS

UI/UX Development

UI components optimization Front-end performance analysis Bug fixes

CS Fundamentals:

Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Database Management Systems (DBMS)

Soft Skills:

Communication, Mentoring, Team Collaboration

Achievements

Built ZenBot   2025

An AI-powered mental healthcare chatbot using RAG, FAISS, and TinyLlama for personalized support.

1st Prize – ITECA 2023 Robotics Challenge   2023

Developing an autonomous robot system.

Leadership Award   2021

Honored as a State-Level Kho-Kho Player, showcasing team leadership and discipline.

Certificates

Soft Skills & Employability Training · ITECA   2022

AI Microservices for RAG Pipelines - Self Implemented · Anna University   2025