Madhumitha

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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.

SKILLS

Programming Languages: Python, Java, C/C++
Web Development: HTML5, CSS3, JavaScript, Flask
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
Mentorship: Student mentoring, Customized learning plans, Robotics projects

WORK EXPERIENCE

TRIOS
Frontend Developer Intern
Sep 2022
Virudhunagar
- Developed and optimized **UI components** using **Git** for version control.
- Contributed to **front-end performance analysis** and **bug fixes**.

Eduseed
Robotics Tutor
Jan 2022
- Mentored 50+ students in Python programming for robotics projects.
- Customized learning plans based on student proficiency.

PROJECTS

ZenBot - AI Mental Healthcare Chatbot 🔗 Zenbot
Nov 2024 - Apr 2025
Technologies: 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
Technologies: 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
Technologies: Machine Learning
- Built a scalable ML model to predict crop yields on large datasets.

Online Food Ordenring App 🔗 Food Ordering App
Jan 2024- Apr -2024
Technologies: Firebase
- Developed an app with tax/delivery calculation logic using Firebase backend.

Women Safety App 🔗 Women Safety App
Jan 2022- Apr 2022
- 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**.

CERTIFICATIONS

Soft Skills & Employability Training

AI Microservices for RAG Pipelines - Self Implemented

ACHIEVEMENTS

1. **Built ZenBot**, an AI-powered mental healthcare chatbot using RAG, FAISS, and TinyLlama for personalized support.
2. **1st Prize – ITECA 2023 Robotics Challenge** for developing an autonomous robot system.
3. **Leadership Award** – Honored as a **State-Level Kho-Kho Player**, showcasing team leadership and discipline.

EDUCATION

Master of Computer Applications   *2022 - Apr 2025*
College of Engineering, Anna University, **CGPA - 7.2**

Bachelor of Computer Applications   *2022*
VHNSN College, **CGPA - 7.7**