

AMRUTHA M

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EDUCATION

Coimbatore Institute of Technology

October 2021 – Present

Integrated Masters in Artificial Intelligence and Machine Learning

CGPA: 8.5/10 (as of 7th Sem)

Vimal Jyothi Convent Matric Higher Sec School

June 2019 – April 2021

Class 12th, Percentage - 95%

SKILLS

Programming languages: Python | ML Skills: Computer Vision & NLP

Web Skills: HTML, CSS; Databases: SQL

Libraries/Frameworks: Pandas, NumPy, Matplotlib, TensorFlow

WORK EXPERIENCE

Raarya, Coimbatore (Hybrid)

AI Engineer Intern

December 2024 – April 2025

- Designed and developed an AI-powered voice assistant for a real estate company using ElevenLabs TTS and STT to deliver natural, human-like conversations in Tamil, replacing traditional BPO-based communication.
- Integrated Retrieval-Augmented Generation (RAG) with Google Gemini to enable intelligent, context-aware voice responses based on a structured real estate knowledge base, allowing the assistant to answer client queries about pricing, location, and property features accurately in real time.

SayvAI Software LLP Private Limited, Coimbatore (Remote)

Machine Learning Intern

July 2024 – November 2024

- Developed solutions for fashion image segmentation (Detectron), 3D garment recognition (PointNet on .ply data), image deblurring (HI-Diff), and generation (VAEs with stable diffusion). Enabled multimodal garment retrieval using UniFashion and OmniGen models integrating visual and textual inputs.
- Built LangChain-SQLite integration and implemented MAC-SQL for natural language database queries; performed speaker diarization-based summarization to extract actionable insights from conversations.

PROJECTS

TOVA AI – AI Agent (Text-to-SQL)

- Developed an AI-powered Text-to-SQL agent that supports creating, deleting, altering, and analyzing SQL queries across multiple databases (MySQL, MSSQL, Oracle, CSV) with smart suggestions, example data previews, and table descriptions.
- Integrated advanced AI models (Ollama, Gemini AI, Meta) to generate SQL queries from natural language and produce clear visualizations of query outputs for data analysis and decision making.

MERN Blood Bank App

- Developed a MERN stack-based blood bank management system with real-time updates, interactive UI, and scalable data handling to optimize donation and storage processes.
- Implemented secure JWT authentication and robust security protocols to ensure data confidentiality and support a growing user base efficiently.

DevGenie AI – Code Editor

- Developed a React-based Collaborative Code Editor that supports multiple languages (python, java, c++).
- Bug detection by deepseek model and the description and Code suggestions are generated by Microsoft's CodexGan.
- Judge0 API to support code execution with sandboxed environment.

ACHIEVEMENTS

NPTEL Certification in Responsible & Safe AI Systems

Secured a position within top 30 teams in Zarthon – **Amrita Vishwa Vidyapeetham (Top 30 of 708)**

100 Days of Code: Complete Python Pro Bootcamp – **Udemy**

AI creation studio (Learned about AI tools & unleashing power of Gen AI) – **Yugam**

Participated in Nexus Hackathon 2024 – **Coimbatore Institute of Technology**