Yadeesh T

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SKILLS

Languages	**Python, C, Java**
ML/AI & Frameworks	**Lang Chain, Lang Graph, PyTorch, TensorFlow, Scikit-learn, Keras, NLTK, FAISS, Tansformer, RAG**
Tools & Platforms	**FastAPI, PostgreSQL, SQLite, KuzuDB, Docker, Kaggle, GitHub, DialogFlow, OpenAI Gym, Matplotlib, Seaborn, Plotly, Numpy, Google Colab, Google Cloud**

EXPERIENCE

AI Intern May 2025 – July 2025

ANNAM.AI – AI Centre of Excellence, Ministry of Education, Govt. of India Remote

- Designed and developed an AI-powered solution for farmers, integrating data-driven insights to address real agricultural challenges.
- Took ownership of building and optimizing predictive machine learning models tailored for agricultural decision support, ensuring high reliability and practical usefulness.
- Collaborated with domain experts, agronomists, and developers to translate on-ground farming challenges into deployable, impact-driven AI features.

EDUCATION

BTECH in Computer Science, Specialization in AI & ML, **VIT Chennai** Aug 2023 – Present

CGPA – 9.06/10

Intermediate(Class 12th), The Chola International school, Thanjavur. June 2022 – May 2023

CGPA – 8.28/10

PROJECTS

Agentic AI Productivity Assistant

- Developed an Agentic AI Operating System using LangGraph and a multi-server MCP architecture to autonomously orchestrate complex workflows. To prevent LLM context saturation, the system utilizes a hierarchical routing pattern that dynamically delegates tasks to specialized tool nodes.
- The architecture integrates a dual-layer memory stack Episodic RAG and a KuzuDB knowledge graph for persistent intelligence and state retention. It is deployed in a secure Docker sandbox and features a low latency voice interface powered by Faster-Whisper and Piper for seamless autonomous interaction.

Portfolio chatbot using Retrieval Augmented Generation(RAG)

- Built a personalized AI chatbot for my portfolio website using RAG architecture for information retrieval. Designed a custom document retriever to fetch relevant resume and project data, enabling real-time, context-aware responses.
- Integrated the chatbot response with Google Gemini API for understandable format, fallback queries, providing a seamless, dynamic user interaction experience.

Vision Transformer for skin disease classification (HAM10000 dataset)

- Developed a custom Vision Transformer (ViT) model from scratch to classify skin lesions across 7 diagnostic categories with medical relevance. Trained the model on the HAM10000 dataset (~1,000 images per class), optimizing for accuracy, generalization, and efficient learning on limited data, achieving 82.04% training and 88.14% validation accuracy
- Enhanced transformer interpretability using attention visualization techniques to support transparency in healthcare diagnostics.

CERTIFICATION & ACHIEVEMENT

- **1st Place – VIZ-A-THON (TESSERACT: The Data Matrix)** – Secured the top position for visualizing Lewis Hamilton's F1 career using advanced data analytics with programming and creative visual storytelling, organized by the Department of Mathematics, VIT Chennai.
- **1st Prize Winner** – ***DeepAthon***, part of the TECHNO-VIT event, for building an innovative AI-based solution.
- **Hackathon Finalist** – Participated in *Dataset*, a 36-hour hackathon focused on real-world Telecom solutions using natural language processing, guided by Prodapt and Nokia Ltd, organized by ECDS Club, VIT Chennai.