ARAVIND M

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Python | C++ | Java | SQL | Excel | Git | GitHub | HTML | CSS | JavaScript | Tkinter | Kivy | Machine Learning | Pandas | NumPy | Matplotlib | Tensorflow | Keras | Scikit-learn | Artificial Intelligence | Retrieval Augmented Generation (RAG) | Ragflow | Langchain | FAISS | LLMs | API | Web Scrapping | Streamlit

EDUCATION

Bachelor of Technology (CSE): Vellore Institute of Technology,Vellore [2022 - 2026] CGPA: 8.76
Senior Secondary (CBSE 12TH): Saraswathi Vidyanikethan (Kochi) [2020-2022] Percentage: 94.8%
Secondary (CBSE 10TH): Veda Vyasa Vidyalayam (Kozhikode) [2016-2020] Percentage: 97.2%

EXPERIENCE

Software Development Intern Jun 2024 – Jul 2024
Cezen Technologies Pvt Ltd (Bangalore) Bengaluru, Karnataka

- Designed a Python-based desktop application UI using Tkinter for the Battery Management System (BMS) at DRDO-ADE, enabling precise real-time monitoring and control of flight-critical battery parameters.
- Collaborated with a cross-functional team to execute 100+ test cases, ensuring compliance with aerospace standards.

PROJECTS

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Expense Tracker : GitHub ↗, .Exe dwnld ↗

- Created a cross-platform expense tracker using Python (Kivy) and SQLite3, featuring full CRUD operations.
- Achieved 100% data retention and reduced manual tracking time by 60% through real-time overspending alerts, dynamic budget tracking, and automated email reports.
- Integrated CSV export and interactive visualizations, increasing user engagement by 40%.

Lead Enrichment Bot: GitHub ↗, Live Demo ↗

- Developed an automated Python tool integrating 3+ data sources and web scraping to enrich 10,000+ leads, improving data accuracy by 40% and reducing manual research time by 60%.
- Generated AI-powered summaries and customer profiles using Google Gemini and Wikipedia API, simplifying lead qualification and outreach.
- Built with Streamlit and Playwright, featuring CSV input/output and secure API key management for easy and scalable use.

Retrieval-Augmented-Generation (RAG) Chatbot: GitHub ↗, Live Demo ↗

- Built a RAG-based chatbot using Gemini API, LangChain, and Streamlit, enabling users to upload PDFs and receive context-aware AI responses. Integrated FAISS for efficient vector-based information retrieval, supporting 100+ daily queries during testing.
- Experimented with Ollama's Qwen-0.5B and Mistral models to benchmark large language model performance and optimize response quality.

CERTIFICATIONS

- Machine Learning A-Z: AI, Python & R + ChatGPT Prize [2025] — Udemy