JAYA SURYA A

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PROFESSIONAL SUMMARY

Passionate about merging creativity and intelligence to build innovative, data-driven solutions powered by Generative AI. Skilled in LLMs, RAG, embeddings, and vector DB, with expertise in Python, SQL, PySpark, and cloud platforms. Driven to transform complex data into scalable, human-centered AI systems that deliver actionable insights.

EDUCATION

Rajalakshmi Engineering College   Sep 2020– May 2024
Robotics And Automation   *CGPA: 7.64*
St.Joseph's mat hr sec school   Jun 2019– May 2020
Math with Computer Science   *Percent: 70.5*

TECHNICAL SKILLS

- **Languages and Tools:** Python, SQL, Git/GitHub
- **Artificial Intelligence & Machine Learning:** Model Development & Evaluation, NLP, Large Language Models, RAG, Vector Databases, Embeddings, Hugging Face.
- **Data Orchestration:** Apache Airflow.
- **Big Data & Cloud Technologies:** Apache Hadoop, PySpark, Azure Databricks.

PROJECTS

GenSight – AI-Powered Analytics and Report Automation System   Link

- Designed a SaaS data reporting platform with **FastAPI**, **Pandas**, and **PySpark**, integrated with **Hadoop** to automate large-scale report generation with **GPT-powered** intelligent insights.
- Enabled real-time workflow tracking via customized workflow front-end and implemented **EDA**, **Data Preprocessing Visualization** and generated PDF/HTML reports.

ChatFolio AI - Personalized AI portfolio chat bot using RAG   Link

- Developed a personalized AI portfolio **chatbot** leveraging **Retrieval-Augmented Generation (RAG)** to interactively answer questions based on my personal portfolio content. Integrated **OpenAI's GPT-OSS-120B** as the core **LLM** for generating contextually accurate and natural responses.
- Implemented **embeddings(all-MiniLM-L6-v2)** and a **FAISS vector database** for efficient **semantic search**, ensuring precise retrieval and relevance in every query.

GenMail - Email made effortless

- An AI-powered email automation workflow built using **n8n** and **Gemini 2.5 Flash**, integrated with a Telegram bot as the user interface. GenMail acts as a personalized AI email assistant that Receives user prompts via Telegram. Drafts context-aware and professional emails using AI. Automatically sends them to the intended recipients. Utilizes simple session-based memory to recall user details like mail IDs for seamless communication.

CERTIFICATIONS

MITx 6.86x: Machine Learning with Python-From Linear Models to Deep Learning   Link
Post Graduate Program in Data Science and Machine Learning   Link
NLP with Python for ML Essential Training   Link
Microsoft SQL Server   Link
SQL Skill Test (Advanced) | HackerRank   Link
Power BI Training   Link
AWS Essential Training for Developers   Link