G. SIVA KUMAR

Generative AI Engineer

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github.com/gesivak21/Portfolio

SUMMARY

Generative AI Engineer with 3 years of experience applying LLMs, RAG pipelines, and cloud technologies to solve real-world challenges in healthcare and insurance. Passionate about building intelligent, scalable AI systems that automate decision-making, extract insights from documents, and improve operational efficiency. Currently seeking opportunities in Generative AI engineering.

WORK EXPERIENCE

Generative AI Engineer │ Cognizant Technology Solutions   **June 2022 - Sept 2025**

Project 1: Prior Authorization for Prescribed Medication
- Developed a RAG-based AI system to assess reimbursement eligibility for prescribed medications using patient prescription documents.
- Integrated data from EHR, Drug, and Policy databases to generate decisions: Approval, Denial, or Request for More Information.
- Utilized LangGraph, LangChain, Gemini Model, FastAPI, Streamlit, and Google Cloud Platform for system development and deployment.
- Implemented automated validation workflows, reducing manual processing time by 40% and improving accuracy by 30%.

Project 2: Provider Contract and Amendment Extraction & Validation
- Built a document intelligence pipeline to extract and validate contract details like provider name, dates, and compensation terms.
- Compared contract and amendment data with the Facets dataset to validate whether the contract is valid or invalid.
- Implemented Azure AI Search for fast document retrieval and semantic matching.
- Deployed the solution on Azure Cloud for better scalability and performance.
- Developed an interactive Streamlit dashboard for contract analytics and reporting.
- Improved contract validation accuracy by 35% and reduced validation cycle time by 50%.

SKILLS

- Python
- Computer Vision
- LangChain
- Azure AI Search
- Machine Learning
- MySQL
- Langgraph
- Applied Statistics
- Deep Learning
- FastAPI
- LangSmith
- FAISS
- NLP
- Prompt Engineering
- Git
- RAG

EDUCATION   **May 2018 - Aug 2022**

Bachelor of Technology in Electrical and Electronics Engineering

Amrita Vishwa Vidyapeetham, Tamil Nadu

CERTIFICATIONS

- **PGP in Artificial Intelligence & Machine Learning** – Great Lakes Learning & Texas McCombs University (2023–2024)
- **Data Science and Machine Learning** – Massachusetts Institute of Technology (MIT)