SRIHARSHA VELICHETI (GEN AI ENGINEER)

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SUMMARY

I am a Generative AI Engineer with expertise in Retrieval-Augmented Generation (RAG) and LLM orchestration, skilled in developing scalable AI assistants that extract contextual insights from unstructured data. Proficient in LangChain, Gemini AI, and cloud platforms like Azure and GCP, with a strong focus on building production-grade, efficient AI solutions. Passionate about leveraging Generative AI to solve real-world challenges in finance and manufacturing, with a proven ability to collaborate across teams and adapt to emerging technologies and methodologies

SKILLS

- Core: Generative AI, Retrieval-Augmented Generation (RAG), LLM Orchestration, NLP, Prompt Engineering
- Frameworks & Libraries: LangChain, Gemini AI, OpenAI API, Hugging Face Transformers, FastAPI
- Cloud & DevOps: Azure AI, GCP (Vertex AI), Docker , CI/CD, Git, Qdrant
- Programming: Python, SQL, [JS,Typscript,(vibe code)]

EXPERIENCE

TenderGenie (Document intelligence application) | (@Datasmithai) **Nov 2024- Present**

- Solved the challenge of manually reviewing long manufacturing tenders, reducing the reading time by 10x.
- Built an enterprise-grade RAG conversational assistant for question-answering, document summarization, keyword extraction, and complex datasheets extraction, with customized evaluation having an accuracy close to 89.77% .
- Blazing Fast keyword extraction in less than 10 secs irrespective of keywords or pages improved efficiency of extraction by 100x approximately using Ahocorasick Engine.
- Tech stack: Python, Docker, Gemini AI, Qdrant, FastAPI, Azure services

Multimodel RAG application (Research intern @ Siemens) **Jan 2024- May 2024**

- Researched end-to-end RAG architectures, including complex PDF ingestion, structured data extraction, schema aware parsing, and workflow automation with LLMs acting as validation “judges” for cleaner pipelines.
- Designed and evaluated multiple vector store ingestion strategies, optimizing embeddings, retrieval, and relevance scoring across different RAG setups.
- Implemented multi-LLM response generation and benchmarking for accuracy, consistency, and factual grounding.
- Contributed to a project integrating PID diagrams into knowledge graphs, applying Graph-RAG concepts for real-time plant monitoring and emergency surveillance.

PROJECTS

Resume Filtering system for HR |

- Created a Generative AI-powered resume management system that automates the filtering, ranking, and classification of resumes through agentic classification and scoring based on cosine similarity.
- Conducted NLP-based candidate analysis, which included skill extraction, technical proficiency scoring, and interactive visualizations, along with assessing strengths and weaknesses by employing a large language model as a judge.
- Integrated AI-driven functionalities such as generating role-specific interview questions, conducting market salary analyses, and automating acceptance/rejection emails via SMTP.
- Developed a modular Streamlit application using Python, spaCy, scikit-learn, PyPDF2, Qdrant, and Groq AI, ensuring a scalable, maintainable, and comprehensive workflow management system.

EDUCATION

Jain University | Bengaluru | Bachelor's degree **Aug 2020 - June2024**

Bachelor of Technologies CSE (Data Science) - CGPA 8.756
Honors in Data science (specialization)

ACHIEVEMENTS / AWARDS

- **Achievements:**
  - TenderGenie Product Deployed and 3 business clients in less than a year of joining in DatasmithAI .
  - Secured 6th individual position out of 159 participants in MACHINE HACK hackathon with an accuracy of 92.6% (during college)
- **Awards/Activities:**
  - Successful Workshop regarding Generative AI in I2IT Pune College, **representing DatasmithAI.**
  - **President** of Data Science Student Club for 10 months.
  - Data Science Facilitator at ***Google Developer Student Club*** for a year and mentored over 100 students in the field of AI/DS/ML
- Certifications: NPTEL certification on Python for Data Science with 69% score in the Exam conducted by IITM