Mayur Jadhav

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EXPERIENCE

Gen Ai Engineer, Infosys   June 2024 - Present

- Architected and deployed a **hybrid Retrieval-Augmented Generation (RAG) Platform**, integrating **Google Cloud Platform (GCP)** and **Azure** to optimize data retrieval and processing across multi-cloud environments. Leveraged **GCP's BigQuery** for large-scale data analytics and **Azure's AI Search** for advanced indexing, resulting in a **23% reduction** in query latency and streamlined access to both structured and unstructured data.
- Enhanced the RAG platform's AI agents and search capabilities by implementing **Dynamic few-shot prompting** and advanced semantic search techniques **(HyDE, MMR, LLM re-ranking).** This integration enabled the agents to select contextually relevant examples and improved search relevance, resulting in a **12% increase in the accuracy** of generated insights and a **28% improvement in search relevance** for domain-specific queries..
- Developed and implemented **AI agents** to automate report generation and data analysis for the RAG Platform. Configured agents to extract actionable insights from diverse datasets and generate comprehensive summaries, achieving a 15% reduction in processing time and enhancing decision-making accuracy for stakeholders.

Software Developer, Xoriant, (Remote)   Nov 2020 - Jul 2022

- Led the development of a comprehensive Internal Portal using **Angular, Spring Boot, AWS, MySQL**, and **REST APIs,** which streamlined client and policy management processes for ACCORD Group. Designed and implemented a full-stack solution with secure, cloud-based data handling.
- Utilized AWS services including **EC2, EMR, DynamoDB and S3** to support scalable and efficient software solutions. Managed cloud infrastructure to ensure high availability and seamless application deployment.
- Leveraged advanced proficiency in **SAS, SQL and Tableau** to develop and deploy 8 data models, dashboards, and visualizations, providing comprehensive solutions to stakeholders. Integrated these tools into the software ecosystem to deliver real-time insights for end-users.

Web Developer, Webster Solutions Maharashtra , IN   Jan 2020 - Aug 2020

- Leveraged version control systems like Git for efficient code management and developed websites for the clients.

PROJECTS

ATS Resume LLM App: Developed an application optimizing resumes for ATS using OpenAI APIs, enhancing match rates for job applications using **OpenAI APIs, Python, AWS, and Google Gemini Pro**. Achieved a 50% improvement in ATS match rates, increasing users' chances of securing interviews.

Shopify Customer Service: Developed an intelligent customer support application leveraging **Large Language Models (LLMs), LangChain framework, Retrieval Augmented Generation (RAG**), and **OpenAI's Whisper** model. Implemented **multi-agent architecture** with LLMs for user authentication, context-based information retrieval, audio transcription, and summarization and structured **as a Directed Acyclic Graph (DAG)** with LLM agents as nodes and edges, enabling dynamic workflows, and deployed using Streamlit.

EDUCATION

Master of Science in Information Systems | Arlington, TX   Aug 2022 - May 2024
The University of Texas at Arlington   GPA: 3.89/4.00

Bachelor of Engineering in Computer Science| Pune, IN   Aug 2016 - May 2020
University of Pune   GPA: 3.60/4.00

ACHIEVEMENTS

Infosys Certified Applied Generative AI Professional   May 2025
Ai Agents in Lang-graph   Jul 2024
Secured First Place in Datathon 2023 among 250 competing teams **|** Machine Learning Contest   Mar 2023
Received Star Employee Award from the Client   Oct 2022

SKILLS

Languages & Frameworks: Python, TensorFlow, PyTorch, LangChain, Llama Index, Streamlit, Flask
Generative AI Technologies: Open-source LLM (Llama2, Mistral), Paid LLM (OpenAI, Google Gemini Pro)
Statistical Analysis & Machine Learning: Fine-tuning with custom data, vector embedding, NLP, RAG, MLops
Databases & Data Engineering: MongoDB, AWS Redshift, Talend ETL, ChromaDB, Pinecone, DataStax Cassandra DB
Cloud & Deployment: AWS Bedrock, AWS (EC2, Lambda), Azure, Hugging Face Spaces, Docker, Kubernetes
Software Engineering & Project Management: Git, JIRA, Agile methodologies, CI/CD pipelines
Technologies: HyDE, MMR, LLM reranking, MPNET, Ada, LangChain, Haystack, Transformer models