

Kaverappa MM

(GenAI & Full-Stack | LangChain • LLMs • Python • Node.js • Angular • AWS • RAG • Graph RAG)

Experience in integrating Large Language Models (LLMs), building GenAI products, and deploying AI-enhanced platforms using RAG architectures. Strong background in both backend (Python, Node.js) and frontend (React, Angular), with production experience in building LangChain based chatbots, stable diffusion interfaces, and LLM-powered tools. Skilled in deploying ML/AI pipelines and managing cloud deployments with Docker, Kubernetes, and GitHub Actions.

[Portfolio](#) [GitHub](#) [Email](#) [LinkedIn](#)

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WORK EXPERIENCE

Senior System Engineer (Infosys Limited, Mysore)

April 2022-Present

- Developed a Live Q&A platform supporting **10K+ users**, boosting real-time engagement by 90%.
- Built an **AI-powered chatbot** using LangChain, Ollama, and LLMs with RAG design, enabling document-based intelligent Q&A with **95% accuracy**.
- Integrated Stable Diffusion API for **text-to-image generation** of creative assets.
- Integrated PostgreSQL with **Redis caching** to optimize backend response times under high load.
- Designed **multistage Docker** images and deployed in **CI/CD pipelines** using **GitHub Actions** reducing release cycles by 50%.
- Managed codebase using GitHub and implemented **automated testing** via GitHub Actions.
- Managed **Agile** sprints, **JIRA** tracking, and PR-based **code reviews** with GitHub.

System Administrator (Diya Systems Pvt Ltd, Mysore)

December 2021-April 2022

- Provided **web advisory services**, resolved DNS issues, and optimized system performance.
- Configured and troubleshooted **Linux systems**, ensuring stability and security.
- Enhanced client solutions through strong **communication** and collaboration.

PROJECTS

Meridian-Events (Angular, Node.js, PostgreSQL, GitHub Actions, Redis, NgRx, RxJS)

- An end-to-end **event management platform** allowing users to create, view, and participate in live events.
- Optimized Angular performance with **ChangeDetection & lazy-loading**, reducing initial load time by 70%.
- Implemented **NgRx & RxJS** for state management, improving UI responsiveness.
- Enhanced backend performance using **Redis caching & asynchronous API calls** to handle traffic.

GenAI Text Generator ([link](#)) (React, Node.js, MongoDB, hugging-face, gpt2)

- Developed a full-stack GenAI application that generates context-aware text using GPT-2 models hosted via **Hugging Face**.
- Implemented custom **prompts** and tokenizer pipelines to generate creative content.
- Designed a **responsive** React frontend with input controls for style, tone, and length tuning.
- Built backend with Node.js to handle **API integration**, session caching, and generation state

GraphRAG ([link](#)) (FastAPI, Python, LangChain, Ollama, FAISS, spaCy, Neo4j, SQLite)

- Built real-time entity extraction using **spaCy** and created a dynamic **Neo4j** knowledge graph for **Graph RAG** based relationship aware querying.
- Integrated LangChain **Text2SQL** agents to query auto-generated **SQLite** database from document using natural language.
- Used Ollama with **FAISS** to enable document chunk search and summarization.

SKILLS

- **LLMs & GenAI:** LangChain, LangGraph, Embedding, Vector Database, Prompt Engineering, Ollama, OpenAI, HuggingFace, RAG pipelines, Neo4j, GAN, basic fine tuning using LoRa and PEFT.
- **AI/ML:** Basics of TensorFlow, Scikit-learn, Pandas, NumPy, MCP Anthropic, n8n automation.
- **Frontend:** React, Angular, RxJS, HTML, CSS, TypeScript.
- **Backend:** Node.js, Express.js, Python (Flask/FastAPI), REST APIs.
- **DevOps/Cloud:** GitHub Actions, Docker, Kubernetes, AWS (EC2, Lambda, S3, IAM, API Gateway, Bedrock, SageMaker), GitOps, Azure DevOps.

EDUCATION

Bachelor of Engineering(7.62 CGPA)

August 2017-October 2021

