Sadik Mohammad

AI Engineer

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PROFESSIONAL SUMMARY

AI Engineer with 1+ years of hands-on experience building RAG pipelines, LLM integration workflows, and AI agent systems using Python, LangChain, and LangGraph. Skilled in prompt engineering, embedding pipelines, and vector database integration with FAISS, ChromaDB, and Pinecone to power intelligent retrieval systems. Practical experience applying transformer models, NLP, and AI workflow automation to real-world domains including healthcare documentation. Focused on designing clean, reliable Generative AI solutions aligned with modern LLM engineering practices.

TECHNICAL SKILLS

Programming:	Python
Generative AI:	Generative AI, Machine Learning, Deep Learning, NLP, Transformer Models, LangChain, LangGraph, RAG Pipelines, AI Agents, Prompt Engineering, LLM Integration, Embeddings, Retrieval Systems, AI Workflow Automation
LLM Platforms:	OpenAI, Hugging Face, Gemini, Ollama
Vector Databases:	FAISS, ChromaDB, Pinecone
APIs & Frameworks:	FastAPI, REST APIs
Databases:	PostgreSQL, SQL
Tools:	Git, GitHub, Postman

WORK EXPERIENCE

AI Engineer 2025 – Present

BYTECHNIK LLC

- Developed end-to-end RAG pipelines integrating FAISS and ChromaDB for accurate document retrieval across AI healthcareworkflows, improving contextual response quality.
- Built LangChain-powered conversational workflows with persistent memory handling, enabling multi-turn AI interactions formedical documentation assistants.
- Implemented LangGraph-based agent orchestration to manage multi-step AI reasoning tasks, allowing conditional branchingand dynamic workflow execution.
- Integrated OpenAI and Groq LLM APIs with structured prompt engineering templates to generate consistent, clinically relevantAI-assisted outputs.
- Designed embedding pipelines using Hugging Face sentence transformers to index and retrieve medical documents withinvector database systems.

AI Engineer 2025 – Present

METACAPS IT SOLUTIONS

- Integrated LangChain retrieval workflows into existing AI pipelines to support intelligent document querying and context-awareresponse generation.
- Developed structured prompt engineering strategies using few-shot and chain-of-thought techniques to improve LLM outputaccuracy for business automation tasks.

- Built RAG systems connecting Pinecone vector databases with OpenAI API for real-time document search and AI-assistedcontent generation workflows.
- Automated intelligent document processing workflows by combining LLM APIs with FastAPI endpoints, enabling seamlessAI-driven data extraction pipelines.
- Implemented AI workflow orchestration using LangChain agents to coordinate retrieval, reasoning, and response formattingacross multi-source knowledge bases.

PROJECTS

AI Lab Report Summarizer — Python · FastAPI · LangChain · OpenAI

- Built AI-powered medical report summarization workflows using LangChain and OpenAI, enabling structured extraction of keyclinical findings from lab documents.
- Developed FastAPI endpoints for report ingestion and processing, supporting structured JSON response generation fordownstream clinical applications.
- Implemented prompt engineering workflows with role-based templates to improve LLM output consistency and reducehallucination in medical summarization tasks.

RAG-Based AI Agent — Python · LangChain · FAISS · FastAPI

- Developed a RAG-based retrieval system using FAISS vector search and LangChain document loaders to handlemulti-document knowledge base queries.
- Built document ingestion and chunking pipelines with embedding workflows to index and retrieve semantically relevant contentfor AI agent responses.
- Implemented conversational memory handling and LangChain agent orchestration to support multi-turn dialogue with accuratecontext preservation.

AI SOAP Notes Generator — Python · FastAPI · OpenAI · LangChain

- Built AI-assisted SOAP note generation workflows using LangChain and OpenAI, automating structured clinical documentationfrom unstructured consultation notes.
- Developed FastAPI-based medical summarization APIs with structured prompt engineering to generate Subjective, Objective,Assessment, and Plan sections.
- Integrated LangChain output parsers to enforce consistent clinical note formatting and reduce manual review time inhealthcare documentation workflows.

KEY HIGHLIGHTS

- Practical experience building RAG-based AI systems using LangChain, FAISS, ChromaDB, and Pinecone.
- Hands-on knowledge of LangGraph agent orchestration for multi-step AI reasoning workflows.
- Skilled in LLM integration using OpenAI, Groq, Gemini, and Hugging Face APIs.
- Experience designing embedding pipelines and retrieval optimization strategies for vector databases.
- Applied AI workflow automation to healthcare domains including lab report summarization and SOAP note generation.
- Strong understanding of prompt engineering techniques including few-shot, chain-of-thought, and role-based prompting.
- Familiarity with NLP fundamentals, transformer model architectures, and text embedding concepts.

EDUCATION

Bachelor of Computer Applications (BCA) 2025 – Present
Maharshi Dayanand Saraswati University
Senior Secondary — Science (Mathematics) Completed 2024
Shri Pragya Public School, Bijainagar