

MANSI SINGH

AI Engineer | GenAI Developer | Python Developer
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PROFESSIONAL SUMMARY

AI Engineer building LLM-powered applications, multi-agent systems, and RAG architectures using Python, LangChain, LangGraph, and OpenAI APIs. Experienced in designing autonomous agent workflows, deploying production-grade AI tools on Streamlit and Render, and integrating real-time data retrieval pipelines. Self-driven with a strong track record of shipping functional AI products from concept to live deployment.

PROJECT EXPERIENCE

Multi-Agent Research Assistant | [GitHub](#) | [Live Demo](#)

Technologies: Python, LangGraph, LangChain, OpenAI API, Tavily API, Streamlit

- Architected an autonomous multi-agent system that generates structured, citation-ready research reports from natural language queries.
- Designed a LangGraph state machine coordinating four specialized agents (Supervisor, Search, Summarizer, Writer) with shared state and typed message passing.
- Integrated Tavily API for real-time web search and deployed the application on Streamlit Cloud with interactive report generation.

Youtube Video Q&A Bot | [Github](#) | [Live Demo](#)

Technologies: Python, Langchain, OpenAI API, FAISS, Streamlit

- Developed a Retrieval-Augmented Generation (RAG) application that answers user questions from YouTube video transcripts using semantic search and LLM-powered retrieval.
- Implemented transcript extraction, recursive text chunking, OpenAI embeddings, and FAISS vector indexing for context-aware question answering.
- Designed a modern LCEL-based retrieval pipeline with Streamlit deployment, session state handling, and robust error management for unavailable transcripts and invalid URLs.

AI Interview Coach | [GitHub](#) | [Live Demo](#)

Technologies: Python, Streamlit, OpenAI API, LangChain

- Built an end-to-end AI interview simulation platform generating role-specific technical and HR interview questions across multiple domains and difficulty levels.
 - Engineered session-based state management to track interview progress, user responses, and cumulative scores across multi-turn sessions.
 - Developed an AI evaluation module that scores answers and delivers structured, rubric-based feedback using OpenAI API.
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SKILLS & TECHNOLOGIES

AI/ML & GENAI:

LLM Applications, LangChain, LangGraph, RAG, Multi-Agent Systems, Prompt Engineering, OpenAI API, Agentic AI

LANGUAGES & BACKEND:

Python, Flask, FastAPI, REST APIs

TOOLS:

Streamlit, GitHub, Render, Streamlit Cloud, VS Code

EDUCATION

Bundelkhand University, Jhansi, Uttar Pradesh

Bachelor of Arts | 2022

TRAINING

- Full Stack Web Development – Masai School
- Self-Learning: AI Development (Python, LLMs, LangChain, LangGraph, RAG, Agentic AI)