Shreyank

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Education

Indian Institute of Information Technology, Kota   Aug 2023 – May 2027
B.Tech in Computer Science and Engineering   GPA: 8.58/10

Projects

Harini: Intelligent AI Scheduling Agent   [GitHub]   [Demo]

- Built a fully autonomous scheduling agent using **LangChain** and **LangGraph**, automating calendar updates, confirmations, and follow-ups with minimal user input.
- Enabled multi-modal communication via **Bland.AI APIs** (calls, emails, calendar sync), with real-time interaction driven by **Gemini 2.0 Flash**.
- Designed using **Planning**, **Goal-Based**, and **Multi-Agent** patterns via **Composio**; deployed with **Docker** on **LangGraph Studio** for scalable, production-ready orchestration.
- Incorporated contextual memory with **InMemorySaver** (short-term) and **MemoryStore** (long-term), enabling persistent multi-session reasoning and task continuity.

Satya: AI-Powered Medical Assistant   [GitHub]

- Developed a **RAG-based medical chatbot** using **LangChain**, **LangGraph**, and **ChromaDB**, indexing 4+ websites and enabling semantic Q&A on diseases like *diabetes* and *migraine* via **HuggingFace Transformers**.
- Integrated **Meta's LLaMA 3 (70B)** via **GROQ** for low-latency inference, and **Tavily Search API** for real-time web grounding; added evaluators like **Hallucination Grader** and **Fallback Handler** for output reliability.
- Built ReAct-style agents in **LangGraph** and deployed using **Docker** and **LangGraph Studio**, ensuring modular, reproducible, production-ready pipelines.

Technical Proficiencies

Programming Languages: **Java**, **Python**, **C++**
Deep Learning: **PyTorch**, TensorFlow; **Hugging Face**, **Natural Language processing** , **Computer Vision**
Generative & Agentic AI: **LangChain** , **LangGraph OpenAI**, **Groq**, and **Anthropic**
Backend Development : **Java**, **Spring Boot**, **Spring MVC**, **Spring REST FastAPI** and **Docker**
Database Management: **MySQL**, **SQL**, **ChromaDB**, **FAISS** — Relational and vector databases

Achievements and skills

- **2nd Runner-Up**, *VisionX AI Hackathon*, DTU (Feb 2025) — Recognized for innovation in AI application design and deployment and successfully participated in 8+ hackathons all over India.

- Built **20+ AI-powered chatbots** using **LangChain** and **LangGraph**, demonstrating advanced multi-agent system skills.

- Achieved a **Codeforces Rating: 1042** — Reflects strong competitive programming and algorithmic thinking.

- Created impactful AI projects for real-life applications:
    - **AI interviewer** - With TTS abd STT and LLM
    - **ATSResumeAnalyze** - With LLM Integration
    - **MusicGenerator** - Using LSTM networks
    - **TelegramBot** - With Mistral AI
    - **CallFraudDetector** - Using Naive Bayes network
    - **CourseRecommender** - Using Vector database and Langchain
    - **VirtualLawyer** - RAG based application with LLM