

# KARAN BAID

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## EDUCATION

**Vellore Institute of Technology**  
BTech Computer Science  
CGPA: 7.58

Bhopal  
November 2022 - Present

## SKILLS

Programming Languages:	Python, C++
Platforms:	GitHub (with Github Actions), Git
Database Management Systems:	MySQL
Backend Libraries / Frameworks:	Flask, HuggingFace, Langchain, FastAPI, Tensorflow , PyTorch
Soft Skills:	Leadership, Communication Skills, Organised, Collaborative
Languges:	English , Hindi

## WORK EXPERIENCE

**Machine Learning Intern** — Netgraph Networking Pvt. Ltd. Duration: 8 weeks | Location: Remote  
Domain: Fintech | Department: Engineering & Technology

- Built and deployed a personalized recommendation system for financial products using ML pipelines.
- Applied core machine learning concepts including data preprocessing, model training, and evaluation.
- Gained exposure to advanced AI/ML techniques and developed insights into fintech-specific use cases and data challenges.
- Collaborated with engineering team to align AI outputs with real-world fintech product structures.
- Gained hands-on experience in domain-driven ML solutioning, handling real user engagement data.

## PROJECTS

**LLM-powered Cybersecurity Chatbot using LLaMA 2 & LangChain:** March 2025

- Developed a domain-specific chatbot for cybersecurity education using LLaMA 2 via Ollama and LangChain
- Implemented prompt engineering, conversation memory, and dynamic response generation for real-time queries.
- Integrated a full-stack solution using Flask + HTML/CSS frontend, simulating real-world chatbot use cases.
- Gained experience in building LLM-based microservices, local deployment, and frontend-backend integration.
- [GitHub Link](#)

*Tech Stack: Python, Flask, LangChain, Ollama (LLaMA 2), HTML/CSS*

**Conversational Search Engine** June 2025

- Engineered an intelligent, conversational agent using the LangChain framework, capable of performing dynamic, tool-based actions to answer complex user queries.
- Integrated a versatile suite of tools—including DuckDuckGo for real-time web searches, Wikipedia for encyclopedic knowledge, and Arxiv for accessing scientific research—enabling the agent to reason about and select the most appropriate information source.
- Leveraged the high-speed inference capabilities of the Groq API with the Llama 3 model to power the agent's core logic, ensuring fluid, real-time responses.
- Developed a user-friendly and interactive web interface using Streamlit, featuring a chat-based format and real-time streaming of the agent's thought process and final answers for a transparent user experience.
- [GitHub Link](#)

*Tech Stack: Python, LangChain, Agentic AI, LLMs (Llama 3), Groq API, Streamlit, Tool-based Agents*

## CERTIFICATES

- Gen-AI Certification by IBM: [Certificate Link](#)
- Python for Data Science and Machine Learning Bootcamp by Jose Portilla [Course Link](#)