

Karan Baid

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EDUCATION

VIT BHOPAL University
B.Tech in Computer Science

Bhopal, MP
October 2022 - Present

WORK EXPERIENCE

Netgraph Networking Pvt. Ltd., Machine Learning Intern

Remote

Duration: 8 weeks

- 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.

TECHNICAL PROFICIENCIES

Programming Languages:

Python, C++

Frameworks & APIs:

Flask, FastAPI, CrewAI, Langchain, Langgraph

MLOPS:

MLFlow, Docker, Airflow, Dagshub, Grafana

Databases:

MySQL, PostgreSQL, Chroma, PineCone, FAISS

Development & Analytics Tools: Git, Jupyter

PROJECTS

Cyber-Saarthi

GitHub Repository [🔗](#)

- 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.

Tech Stack: Python, Flask, Lang Chain, Ollama (LLaMA 2), HTML/CSS

News Analysis Crew

GitHub Repository [🔗](#)

- Engineered a multi-agent AI system using the CrewAI framework to automate the critical analysis of online news articles, simulating a professional research workflow.
- Developed a specialized "Web Content Extractor" agent with a custom Python tool using BeautifulSoup to parse HTML and isolate core article text from web page clutter.
- Designed a second "AI Critical Thinking Partner" agent tasked with performing nuanced analysis, including identifying core claims, tone, potential biases, and generating verification questions.
- Orchestrated the agent collaboration in a sequential process where the extractor agent retrieves content and passes it to the analyst agent for in-depth reporting and final output generation.

Tech Stack: Python, CrewAI, Pydantic, BeautifulSoup, YAML, LangChain

RAG Q&A chatbot

GitHub Repository [🔗](#)

- Developed a conversational RAG application using Streamlit and LangChain to enable users to chat with the content of uploaded PDF documents..
- Engineered a history-aware conversational agent to maintain context across multiple turns, allowing the system to understand and respond to follow-up questions accurately.
- Implemented a user-friendly interface with session management and secure API key handling, supporting multi-PDF uploads and persistent chat histories per session.

Tech Stack: Python, Langchain, Huggingface, GroqAPI, ChromaDB, Streamlit

CERTIFICATIONS

Gen-AI Certification by IBM

Verification Link [🔗](#)

Python for Data Science and Machine Learning Bootcamp by Jose Portilla

Verification Link [🔗](#)

Complete Generative AI course with Langchain and Huggingface

Verification Link [🔗](#)