Vikas Jangid

Data Science & AI/ML

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SUMMARY

Data Science & AI/ML Professional with hands-on experience in predictive modeling, workflow automation, and AI-driven solutions. Proficient in Python, data preprocessing, and generative AI for task management and attendance tracking. Skilled in agentic AI for autonomous decision-making and task execution. Strong foundation in ML and DL and real-world problem-solving, with active participation in AI workshops.

EXPERIENCE

AI ML Intern
Regex Software Services
📅 02/2024 - Present 📍 Jaipur, Rajasthan

- Designed and implemented **machine learning models** and predictive analytics algorithms to extract actionable insights.
- Performed data pre-processing, including **feature engineering**, normalization, and imputation, to enhance model performance.
- Utilized Python for efficient data handling, model development, and backend integration.
- Leveraged Generative AI with **Google Generative AI** and **NLP** to automate task breakdowns and schedule management.
- Containerized applications using **Docker** and established **CI/CD pipelines** for automated testing and continuous integration.
- Developed and trained deep learning models using and **TensorFlow** for advanced AI applications.
- Developed and deployed **Conversational AI** solutions using **LangChain**, integrating **retrieval-augmented generation (RAG)** for enhanced responses.
- Built and managed cloud-based AI applications on **AWS**, ensuring scalability and reliability.
- Implemented **containerized deployments** with **Kubernetes**, optimizing resource management and system performance.

PROJECTS

AI-Powered SDLC Automation Agent
🔗 Github

- Designed and deployed a **multi-stage SDLC automation system** using LangGraph, orchestrating the full software lifecycle: **User Story → Design → Code Generation → Test Case Generation**.
- Implemented **Retrieval-Augmented Generation (RAG)** in code generation and test case nodes using vector-based context retrieval to improve accuracy and alignment with user requirements.
- Developed a **modular LangGraph pipeline** with custom nodes and state tracking, enabling flexible re-processing and contextual feedback loops at every stage.
- Built an intuitive, interactive **Streamlit UI** with feedback-driven refinement and live process visualization across multiple SDLC phases.
- Deployed the app on **Hugging Face Spaces** with **CI/CD integration using GitHub Actions**, enabling automated testing, seamless updates, and public GPU-backed access.

Conversational RAG Chatbot with PDF Upload
🔗 Github

- Developed a **Conversational RAG Chatbot** using **LangChain, FAISS, and Groq API**, enabling users to upload PDF files and interact with their content. Implemented **retrieval-augmented generation (RAG)** to provide context-aware responses while maintaining chat history. Used **Hugging Face embeddings** for document vectorization and Streamlit for a user-friendly interface.
- Integrated **ChatGroq LLM** to enhance response generation with contextual awareness.
- Utilized **FAISS vector search** for efficient document retrieval and query handling.

KEY ACHIEVEMENTS

Generative AI Mentor
Served as a mentor for Generative AI classes at JIET College, Jodhpur.

SKILLS

Python | NLP | Tensorflow | SQL | CI/CD Pipelines | Streamlit | vector databases | Kubernetes | Langchain & LangGraph | AWS | Machine Learning | Generative AI | Deep Learning | GitHub | Docker | Agentic AI

CERTIFICATIONS

Krish Naik Generative AI Udemy Course
Covers deep learning, transformers, and AI model deployment.

EDUCATION

B.Sc.
Maharshi Dayanand Saraswati University
📅 05/2022 - 04/2025 📍 Ajmer, India

INTERESTS

Artificial Intelligence
Passionate about **ML, DL, and Generative AI**, with a focus on **LLMs, NLP, and cloud-based AI solutions** to build innovative and impactful systems.

Sports
Enthusiastic about **cricket**, with a passion for **fast bowling**. Enjoy teamwork, strategy, and continuous skill improvement on the field.

Passion for Networking
Passionate about **building strong human connections** and expanding professional networks. Enjoy engaging with diverse individuals, fostering collaboration, and creating meaningful relationships.