

Sankalp Singh

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Summary — AI/ML Engineer skilled in building production-grade ML pipelines, scalable GenAI systems, and LLM-powered automation. Experienced in supervised/unsupervised learning, NLP, transformers, RAG, and end-to-end model deployment. Strong foundation in software engineering, enabling the design of efficient, data-driven solutions and high-impact real-world AI applications across ML, GenAI, and MLOps workflows.

Skills

Languages	Python, SQL, C, Html	Web Frameworks/APIs	FastAPI, Streamlit, Langchain, Langgraph
ML Frameworks	Scikit-learn, PyTorch, Hugging Face, Keras	Databases	MySQL, PostgreSQL, Sqlite
Data Visualization	Pandas, NumPy, Seaborn, Tableau, Excel	DevOps Tools	Docker, Git, GitHub, AWS

Experience

Prodigy Infotech	Jul 2024 – Aug 2024
<i>Machine Learning Intern</i>	<i>Remote</i>
<ul style="list-style-type: none">Developed and optimized machine learning models for regression, classification, and clustering using Python and Scikit-learn, improving accuracy by 15% through feature engineering and hyperparameter tuning.Engineered features from raw datasets to enhance model performance and deployed predictive models to address real business problems.Implemented NLP techniques for text classification, achieving 92% accuracy on a dataset of 10,000+ entries and presenting insights to stakeholders.	

Education

Education	
<i>B.Tech in Computer Science and Engineering</i>	<i>2022 – 2026 (Expected)</i>
<i>UEM Jaipur, Jaipur, India</i>	<i>CGPA: 8.0 (6th Semester)</i>
<i>Class XII (CBSE)</i>	<i>2021</i>
<i>Arcadia Academy, Kota, India</i>	<i>Percentage: 73.5%</i>
<i>Class X (ICSE)</i>	<i>2019</i>
<i>M.C. Kejriwal Vidyapeeth, Kolkata, India</i>	<i>Percentage: 80%</i>

Projects

agentic-qa-app	GitHub
<ul style="list-style-type: none">Engineered a production-grade Retrieval-Augmented Generation (RAG) system using LangGraph and LangChain.Implemented a 4-stage autonomous workflow (Forage → Summarize → Critique → Assimilate) enabling fully agentic knowledge processing.Built and maintained a vector knowledge base with FAISS and ChromaDB, reducing manual knowledge curation time by 100%.	
Prompt-Enhancer-app	GitHub
<ul style="list-style-type: none">Architected a production-ready prompt enhancement platform using LangGraph state machines and a dual-LLM strategy (Groq primary with Gemini fallback).Implemented ML-powered quality prediction using scikit-learn to auto-detect low-quality responses (i0.60 threshold) and retry up to 3 times.Achieved 40–60% API cost reduction through PostgreSQL-backed caching and reduced enhancement failures by 85%.	
StudyBuddy	GitHub
<ul style="list-style-type: none">Architected and deployed a production-ready AI learning ecosystem using FastAPI, PostgreSQL, and Streamlit with Dockerized deployment on Render.Built a multi-agent LangGraph architecture with specialized agents (Interview, Daily Digest, LeetCode, Flashcard, Resume) powered by Groq LLM and Tavily web search.Implemented 100% JWT-secured authentication and delivered 1000+ personalized interview questions through RESTful APIs.	

Leadership

- Organizer, AceHack 3.0 4.0: Coordinated logistics, managed 10+ mentors, and supported 500+ participants ensuring smooth execution and fostering a strong developer community.