

Deepmala Singh

AI / GenAI Engineer

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SUMMARY

AI/GenAI Engineer with 1 year of experience building production-grade LLM systems, RAG pipelines, multi-agent architectures (LangGraph), and traditional machine learning pipelines. Independently designed and deployed 3 full-stack AI/ML applications using FastAPI, Docker, and CI/CD, with hands-on experience applying NLP and prompt-engineering techniques in a fintech environment. Seeking an AI/ML Engineer or GenAI Developer role.

EDUCATION

Chandigarh University

Bachelor of Computer Science Engineering — CGPA: 7.2 / 10

Chandigarh, Punjab, India

Aug 2023 – Aug 2027

Atam Vidya Mandir Senior Secondary School

Higher Secondary Education (Class XII) — CGPA: 8.3/10

Ludhiana, Punjab, India

2023

SKILLS

Languages: Python, C++

Machine Learning: Scikit-learn, NumPy, Pandas, GridSearchCV, Model Training, Data Preprocessing, Model Evaluation, Cross Validation, Hyperparameter Tuning, Feature Engineering

Generative AI & NLP: LLMs, RAG, Prompt Engineering, LangChain, LangGraph, Multi-Agent Systems, NLP, Text Cleaning, Parsing, Chunking, Embeddings, Vector Databases, Semantic Search

Frameworks: FastAPI, Flask, Hugging Face, Pytorch

Databases: PostgreSQL, SQL, ChromaDB

Cloud & DevOps: Docker, AWS (EC2, ECR), CI/CD, Render

Tools: Git, GitHub, VS Code, Postman

PROFESSIONAL EXPERIENCE

Bluestock Fintech

AI Intern (Remote)

Pune, Maharashtra, India

Jan 2025 – Jan 2026

- Performed NLP-based analysis on 50K+ financial text records to identify patterns supporting stock and IPO research.
- Built prompt-engineering workflows using LLM APIs to extract structured insights from unstructured market news, cutting manual review time.
- Developed AI-powered internal tools for automated content summarization, simplifying complex financial reports for non-technical stakeholders.
- Designed and organized a structured dataset of 50K+ financial records to enable retrieval-based (RAG) experimentation.

PROJECTS

NexoraAI | [GitHub](#) | [Live Demo](#)

July 2026

- Overview:** Full-stack, multi-provider agentic chatbot with a FastAPI + LangGraph backend; supports real-time SSE streaming, JWT auth, document uploads, and shareable per-user conversation history.
- Technologies:** FastAPI, LangGraph, LangChain, Google Gemini, Groq (Llama 3.3), Mistral, Tavily, ChromaDB, SQLite, Docker.
- Outcome:** Combined RAG, live web search, and long-term memory with mid-conversation model switching across 3 LLM providers; deployed via Docker with a self-hosted AWS EC2/ECR CI/CD pipeline.

Travix AI | [GitHub](#) | [Live Demo](#)

June 2026

- Overview:** Multi-agent travel planning system using LangGraph, orchestrating Flight, Hotel, Itinerary, and Final Response agents to turn one natural-language query into a full trip plan.
- Technologies:** LangGraph, LangChain, Groq (Llama 3.3), FastAPI, PostgreSQL, Docker, AviationStack, Tavily.
- Outcome:** Delivered real-time, budget-aware itineraries with persistent multi-turn sessions (PostgreSQL checkpoint), containerized and deployed to production on Render.

Student Math Score Predictor | [GitHub](#) | [Live Demo](#)

Dec 2025

- Overview:** End-to-end machine learning pipeline (data ingestion, preprocessing, training, inference) predicting student math scores from academic and demographic features.
- Technologies:** Python, Scikit-learn, Pandas, NumPy, GridSearchCV, Flask, Docker, Render.
- Outcome:** Trained and benchmarked 6 regression models, selecting the best performer by R^2 score; deployed a real-time prediction web app via Flask, containerized with Docker, and hosted on Render.

ACHIEVEMENTS

Solved 150+ Data Structures & Algorithms problems on LeetCode and other coding platforms.

Hackathon Finalist Certificate — IIT Indore Hackathon (FLUXOS), 2025 — [View Certificate](#)

Advanced Python Certification — LinkedIn Learning — [View Certificate](#)

Google Cloud Agentic AI Day — Certificate of Participation, powered by Hack2skill, 2025 — [View Certificate](#)