

GAURAV SHARMA

AI Engineer

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PROFESSIONAL SUMMARY

AI Engineer focused on Retrieval-Augmented Generation, LLM applications, and agentic systems, with hands-on experience shipping RAG pipelines, multi-agent research tools, and computer vision systems from prototype to deployed demo. Background spans a generative AI internship, an AI consulting venture, and self-driven production projects using LangChain, PyTorch, and vector databases.

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL

AI/LLM: LangChain, LangGraph, Hugging Face Transformers, PyTorch, Ollama, OpenRouter, Vercel AI SDK, Prompt Engineering, MCP

RAG & Vision: ChromaDB, FAISS, Vector Databases, Semantic Search, Embeddings, OpenCV, YOLOv8, OCR, CLAHE

Infrastructure: Docker, Git, Linux, MySQL, Streamlit, REST API integration

PROFESSIONAL EXPERIENCE

Generative AI Intern | Carrier Compiler

Jan 2026 — Feb 2026 — Remote

- Built a Retrieval-Augmented Generation chatbot over indexed educational documents using LangChain and Llama, covering the full retrieval pipeline from ingestion to response generation.
- Implemented document ingestion, text chunking, embedding generation, and semantic retrieval to ground chatbot responses in source material and reduce hallucinated answers.

Founder & AI Consultant | Atlas Intelligence AI (Self-Employed)

Jan 2025 — Mar 2026 — Remote

- Founded and operated an AI consulting practice delivering custom LLM and automation solutions for client business workflows, owning proposal, scoping, and technical execution end-to-end.
- Designed agentic and LLM-based applications to automate real operational workflows for prospective clients; wound down after failing to secure sufficient recurring client engagement, gaining direct go-to-market validation experience.

Data Science Intern | The Entrepreneurship Network

Apr 2025 — Sep 2025 — Remote

- Designed and built NexusClaw, a full-stack agentic AI platform integrating LLMs, RAG, and tool-calling workflows, plus a RAG-based FAQ chatbot for educational content using LangChain and semantic retrieval.

Mathematics & Computer Science Educator | Self-Employed

Oct 2023 — Sep 2025 — Agra, India — Hybrid

- Taught mathematics (Grades 6–10) and computer science (Grades 11–12) with personalized lesson plans, practice materials, and assessments to strengthen conceptual understanding.

PROJECTS

AI Multi-Research Agent — LangChain, Gemini 2.5 Flash, Streamlit, Python

- Designed a four-stage multi-agent research pipeline (Search, Reader, Writer, Critic) turning a topic query into a structured report, with resilient search/scraping (DuckDuckGo, BeautifulSoup), a Streamlit UI, and a standalone CLI runner.

[GitHub](#) [Live demo](#)

AI Legal Document Analyzer — LangChain, Ollama, ChromaDB, Python

- Built a fully local, privacy-preserving RAG system for legal document summarization, semantic search, and grounded Q&A with zero third-party API calls, using similarity-threshold gating and a persistent Chroma vector store (1000-token chunks, 150-token overlap) to prevent hallucinated answers.

[GitHub](#) [Live demo](#)

Knight-Sight (ANPR Pipeline) — YOLOv8, OpenCV, OCR, Streamlit

- Developed an end-to-end ANPR pipeline (vehicle detection → plate localization → OCR) using a custom-trained YOLOv8 model on a self-labeled dataset.
- Implemented CLAHE-based low-light enhancement and adaptive-threshold glare mitigation, with configurable GPU/CPU training scripts and a Streamlit demo app.

[GitHub](#) [Live demo](#)

EDUCATION

B.Tech, Computer Science & Engineering — Dr. A.P.J. Abdul Kalam Technical University — Sep 2022 – May 2026 — Grade: 6.24

CERTIFICATIONS & LANGUAGES

Introduction to Model Context Protocol, Introduction to Agent Skills, AI Fluency for Small Businesses — Anthropic (Aug 2026) | Certificate of Participation — Bennett University (Apr 2026) | Prompt Engineering and AI Agents with ChatGPT — LinkedIn (Jul 2026)

Languages: English (Professional Working Proficiency), Hindi (Professional Working Proficiency)