

AKSH GOYAL

AI Engineer | Forward Deployed Engineer | AI Product

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Ludhiana, India | Open to relocation (India or international) | Immediate joiner

PROFESSIONAL SUMMARY

AI engineer and product builder who works from inside the client's operation. Spent 15 months embedded with the Vaccines Commercial organisation of a global pharmaceutical company, taking ambiguous briefs to shipped software: a **multi-agent RAG chatbot** taken to **94% accuracy** through a purpose-built evaluation framework, a tender guidance tool spanning **40+ countries**, web scrapers and SQL analysis. Combines hands-on **Python/FastAPI and LLM engineering** with on-site stakeholder discovery and problem framing.

EDUCATION

Indian Institute of Technology (IIT) Delhi

2021 - 2025

B.Tech, Textile Engineering | Minor, Business Management

SKILLS

AI systems: Multi-agent orchestration, RAG (hybrid semantic vector search + BM25), embeddings and chunking strategy, evaluation-framework design, structured outputs and guardrails (Pydantic), prompt engineering; OpenAI and Gemini APIs.

Engineering: Python, TypeScript, SQL (MySQL, SQLite), FastAPI, REST/API integration, web scraping (httpx, BeautifulSoup), Firebase, Twilio, Git, Vercel; test suites with mocked LLM calls.

Product and client delivery: On-site stakeholder discovery, problem framing, scoping, user validation, go-to-market and tender strategy, VP-level presentations.

AI-assisted development: Claude Code, Gemini CLI, Codex - daily; custom skills, subagents, MCP servers. **Analytics:** Power BI/DAX, Tableau, Alteryx, openpyxl.

PROFESSIONAL EXPERIENCE

Aspect Ratio - Analyst, AI & Strategy Consulting

Jun 2025 - Aug 2026

Embedded with the Vaccines Commercial team of a global pharmaceutical company; built and shipped the AI applications and internal tools used by its marketing, medical and global bidding teams.

- **Owned an HCP persona-simulation chatbot end to end** from a brief with no internal precedent. Sat with the client's marketing team to frame the problem, designed the architecture converting rated survey parameters into qualitative system prompts, and shipped it over a local network; **validated by 10 users**, then handed to a large consultancy for production build-out.
- **Architected its multi-agent RAG backend:** routing agents directing queries across a hybrid retrieval stack (semantic vector search + BM25) on OpenAI APIs.
- **Built the evaluation framework that took it to 94% accuracy** - designed test scenarios and failure paths, then iterated chunking, embedding and search strategy against measured results.
- **Built a tender guidance tool** for the global vaccines bidding team spanning **40+ countries and 5 vaccines**, putting pricing and bid-strategy guidance at the point of decision.
- **Wrote 4 web scrapers (Python, httpx, BeautifulSoup, openpyxl)** turning undocumented conference sites with no API into structured datasets; ran an end-to-end **SQL analysis (MySQL)** of vaccine-effectiveness data behind a European surveillance report.
- **Shipped internal tools (PowerApps, SharePoint)** into the commercial teams' daily workflow; researched AI use cases across HCP engagement, omnichannel marketing, MLR review and sales enablement for VP+ leadership.
- Diagnosed a brand-messaging problem directly with the client; **the recommendation was adopted into a global vaccine brand's live messaging**. Mentored an intern - scoped his project, set direction, reviewed his work.

Grant Thornton Bharat - Summer Trainee, Public Sector Consulting

May 2024 - Jul 2024

- On site in New Delhi for a Government of India programme: built a **Power BI dashboard** tracking **287 resources** by state and designation; analysed performance data to compute penalties and QA'd **2,000+ compliance documents**. Letter of Recommendation from Associate Director.

Grant Thornton Bharat - Summer Trainee, Public Sector Consulting

May 2023 - Jul 2023

- On site in Shillong for a Government of Meghalaya programme: **integrated fragmented, undocumented citizen datasets** into a unified database (Alteryx); built a **Tableau dashboard across 15+ schemes** used in quarterly state-leadership reviews.

PROJECTS

Job Search Assistant - end-to-end agentic AI product

Jun 2026 - Jul 2026

- Shipped a **deterministic Python/FastAPI/SQLite pipeline with LLM agents placed only at judgment points:** multi-source ingestion, relevance scoring and tailored application materials, plus a **Chrome extension** capturing job data from a site with no public API.
- **Eliminated hallucination** by constraining model output to a validated schema of real entries; every path covered by a **101-test suite of mocked LLM calls**.

Membership CRM - operational software for gyms and subscription businesses

2026

- Built lifecycle and **automated-outreach workflows** (Twilio messaging, Ringg.ai voice calls) on TypeScript, Firebase and Vercel, designed for non-technical front-desk staff.

Plan My Day - AI productivity agent

2026

- Task and goal-breakdown agent moved off a hosted platform to a local **FastAPI + SQLite + Gemini** stack.

ACHIEVEMENTS & LEADERSHIP

- **JEE Mains 2021: Rank 794** (top 0.07% of 1M+ candidates); NTSE Stage 1 (top 0.002%); Gold, SOF Mathematics Olympiad.
- Coordinator, Tryst, IIT Delhi: led a **3-tier team of 30** running the guest-lecture series. Senior Member, SHARE: **1 of 8 from 100+**.