

ANSHUL PANDYA

AI Engineer | Full Stack Developer

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SUMMARY

AI Engineer with **3.5 years** of experience building and shipping Generative AI and LLM systems that reach real users, including two state-government platforms serving **600,000+ students**. Specialises in RAG pipelines, multi-agent orchestration with LangGraph, and guardrailed LLM applications on Azure OpenAI, backed by production MERN and FastAPI engineering that carries a prototype through to live traffic. Currently building enterprise Gen AI for **PayPal** at TCS.

TECHNICAL SKILLS

Gen AI & Agents: Generative AI (Gen AI), Large Language Models (LLMs), Agentic AI, Agentic RAG, Multi-Agent Orchestration, MCP (Model Context Protocol), Tool & Function Calling, Retrieval-Augmented Generation (RAG), Embeddings, Semantic Search, Prompt Engineering, Structured Outputs, LLM Reasoning Chains, Guardrails, Hallucination Mitigation

LLM Frameworks & Providers: LangChain, LangGraph, LlamaIndex, Hugging Face Transformers, Azure OpenAI, Azure AI Foundry, OpenAI GPT-4o, Anthropic Claude, Google Gemini, Llama, Ollama (local LLMs)

Databases & Vector Stores: Pinecone, ChromaDB, MongoDB, MySQL, SQL

Backend & APIs: Python, FastAPI, Pydantic, Node.js, Express.js, REST API Design, Microservices, Postman (API Testing), PyTorch

Frontend: React.js, TypeScript, JavaScript, HTML, CSS

NLP & Vision: Text Extraction, Summarization, Intent Classification, Sentiment Analysis, Azure Computer Vision, OCR / Document AI

Cloud, MLOps & Tools: Microsoft Azure, Google BigQuery, MLOps, Model Lifecycle Management, Deployment Automation, Git & GitHub, Claude Code

EXPERIENCE

AI Engineer

Jan 2026 – Present

Tata Consultancy Services (TCS): Client PayPal | On-site

- Developing a Natural Language to SQL query converter for BigQuery using LLMs, structured prompt pipelines and query-optimization techniques.
- Building automation pipelines for ML model deployment, streamlining model lifecycle management and reducing manual operational effort.

AI Engineer | Full Stack Developer

Oct 2024 – Jul 2025

Deepspatial AI Asia Pvt. Ltd: Noida | On-site · Behind the Badge Award

- Built an AI career-guidance engine using LLM-based reasoning chains over assessment performance data, **impacting 600,000+ students** across Himachal Pradesh.
- Implemented embeddings and Pinecone vector search for study-material retrieval, **reducing search latency by 20%** and improving relevance.
- Engineered auto-generated assessments with GPT-4o, LangChain and LangGraph, letting students create personalized quizzes and receive instant skill analysis.
- Built the underlying digital learning platform with FastAPI, Node.js, React and MongoDB.

Trisha Web Soft: Dewas / On-site

- Built scalable REST APIs and **improved backend performance by 30%** through query optimization and microservice restructuring.
- Built and maintained e-commerce, CMS and food-delivery applications on React, Node.js, Express, MongoDB and MySQL.

KEY PROJECTS

10+ projects delivered across Gen AI and full-stack MERN. Recent highlights below. Full portfolio at anshul-pandya.vercel.app.

Natural Language to SQL Converter: *TCS, Client PayPal / GenAI + BigQuery*

- LLM system converting natural language into optimized BigQuery SQL, with query validation and structured prompt pipelines that improve accuracy and cut hallucinations. Backend APIs built in Python and FastAPI for enterprise usage.

ML Model Deployment Automation: *TCS, Client PayPal / MLOps*

- Automation framework for ML deployment workflows covering packaging, deployment, validation and monitoring, cutting manual effort and making releases consistent across environments.

Study Material Retrieval Agent (RAG): *Govt. of Himachal Pradesh / Production, 600K+ students*

- RAG agent indexing study materials with Azure OpenAI embeddings and a Pinecone vector database to answer students' natural-language queries. Guardrails and validation layers keep responses hallucination-free.

Teacher Lifecycle Management + AI Sentiment Analysis: *Govt. of Meghalaya / MERN + Azure AI, Microservices*

- Microservice MERN platform digitizing onboarding, training and service workflows for teachers statewide. An Azure Computer Vision OCR module extracts handwritten feedback forms and scores sentiment into a React dashboard.

EDUCATION, CERTIFICATIONS & AWARDS

Bachelor of Computer Application (BCA): *Devi Ahilya University, Indore*

2018 – 2021

Certifications: Microsoft Azure (Generative AI, AI Agents, NLP, Info Extraction, Computer Vision) · Coursera (Prompt Engineering)

Awards: Behind the Badge Award, Deepspatial AI Asia, for problem-solving, innovation and high-performance contribution as a Full Stack AI Developer.

Open Source: Public Gen AI experiments on github.com/anshulp-web, including *azure-foundary-rag* and *rag-with-ollma-langchain*.