

# Anshul Pandya

AI Engineer | Full Stack Developer | 3 YOE



## Contact

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## Education

**Bachelor of Computer Application - BCA**  
Devi Ahilya University, Indore  
2018 - 2021

## Skills

### Azure Skills

- Generative AI (Azure OpenAI, LangChain, Llama, GPT models)
- NLP (Text extraction, summarization, intent classification)
- Computer Vision (Azure Custom Vision, Image Recognition)
- Prompt Engineering & Fine-tuning LLMs

### Frontend

- HTML
- CSS
- JavaScript
- React.js
- TypeScript

### Backend

- Python, PyTorch
- Node.js, Express.js
- Fast API

### Gen AI Frameworks

- LangChain, LlamaIndex
- LangGraph
- Hugging Face Transformers
- OpenAI, Gemini, Claude
- Multi-Agent Workflows (LangGraph)
- Prompt Engineering, RAG, Embeddings

### Database

- MongoDB / MySQL
- Pinecone/ChromaDB

## About Me

AI Engineer and Full Stack Developer with 3 years of experience building scalable web platforms and AI-driven solutions. Skilled in Generative AI, NLP, and ML model development using Azure AI services. Experienced in developing intelligent applications for personalized learning, student assessment, and data-driven decision-making.

## Experience

### Gen AI Engineer

Jan 2026 - Present

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

- Working as a Gen AI Engineer for PayPal, building AI-driven enterprise automation and intelligent data solutions.
- Developing a Natural Language to SQL Query Converter for BigQuery using LLMs, prompt engineering, and query optimization techniques.
- Building automation pipelines for ML model deployment to streamline model lifecycle management and reduce manual operational efforts.

### AI Engineer | Full Stack Developer

Oct 2024 - July 2025

Deepspatial AI Asia Pvt. Ltd. | Noida | On-site

- Built a scalable digital learning platform enabling students to access and search study materials using FastAPI, Node.js, React, MongoDB.
- Engineered auto-generated assessments using LLM content generation, allowing students to create personalized quizzes and receive instant skill analysis.
- Implemented embeddings and vector search using Pinecone, improving study-material retrieval relevance and reducing search latency by 20%.
- Built an AI career-guidance engine that analyzes assessment performance and recommends suitable career paths using LLM-based reasoning chains Impact 6Lakhs+ students.

### Full Stack Developer

Jun 2022 - Jun 2024

Trisha Web Soft | Dewas | On-site

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

# CERTIFICATIONS | MICROSOFT

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- Azure Generative AI · Azure AI Agents · Azure NLP Solutions ·
- Azure Info Extraction · Azure Computer Vision
- Coursera: Prompt Engineering

## Award

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**Behind the Badge Award (Deepspatial)** — Awarded for exceptional problem-solving, innovation, and high-performance contributions as a Full Stack AI Developer.

## Projects

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### ★ Natural Language to SQL Query Converter

**TCS — Client: PayPal | GenAI + BigQuery**

Built an AI-powered Natural Language to SQL conversion system for BigQuery using LLMs and prompt engineering.

- Enabled users to generate optimized SQL queries from natural language inputs.
- Implemented query validation and structured prompt pipelines to improve SQL accuracy and reduce hallucinations.
- Designed scalable backend APIs using Python and FastAPI for enterprise usage.

### ★ ML Model Deployment Automation System

**TCS — Client: PayPal | MLOps + Automation**

Developing an automation framework to streamline ML model deployment workflows.

- Automated model packaging, deployment, validation, and monitoring processes.
- Reduced manual deployment efforts and improved deployment consistency across environments.

### ★ Study Material Retrieval Agent (RAG Agent)

**Deepspatial AI Asia Pvt. Ltd. — Govt. of Himachal Pradesh (Production, 6L+ Students)**

Built a Retrieval-Augmented Generation (RAG) agent that indexes large-scale study materials using Azure OpenAI embeddings and Pinecone vector database.

- Designed high-precision retrieval flows to surface the most relevant learning content for students.
- Implemented guardrails and validation layers to ensure accurate, safe, hallucination-free responses.

**Impact: Enabled 6L+ students to instantly access the exact study material they need through natural language queries.**

### ★ Assessment & Evaluation Agent

**Deepspatial AI Asia Pvt. Ltd. — Govt. of Himachal Pradesh (Production, 6L+ Students)**

**Built an AI assessment engine using Azure OpenAI GPT-4o, LangChain, LangGraph, FastAPI, and React.js**

- Generated curriculum-aligned quizzes using GPT-4o with RAG and embeddings.
- Evaluated answers using LLM reasoning and produced topic-wise insights.
- Used Pinecone for retrieving context during evaluation.
- Leveraged LangGraph to manage multi-step workflows, retries, and fallback logic for accuracy.

**Impact: Enabled 6L+ students to auto-generate assessments and receive instant performance analytics.**

## ★ AI Career Guidance Agent

Deepsatial AI Asia Pvt. Ltd. — Govt. of Himachal Pradesh (Production, 6L+ Students)

Developed a personalized career recommendation agent using Azure OpenAI GPT-4o, LangChain, LangGraph, Python, FastAPI, React.js and TypeScript dashboard.

- Transformed assessment data into structured skill profiles using embeddings + LLM reasoning.
- Mapped strengths to academic/career paths using semantic matching via Pinecone.
- Used LangGraph to orchestrate multi-agent refinement loops as student performance evolved.

**Impact: Delivered data-backed, personalized career paths for 6L+ of students across Himachal Pradesh.**

## ★ Teacher Lifecycle Management System + AI Sentiment Analysis

Deepsatial AI Asia Pvt. Ltd. — Govt. of Meghalaya | MERN + Azure AI | Microservices Architecture

Built a microservice-based Teacher Lifecycle Management System using the MERN stack to digitize onboarding, training, and service workflows for teachers across Meghalaya.

- Developed an AI module using Azure Computer Vision OCR + Text Analytics to extract text from handwritten/scanned training feedback forms.
- Perform sentiment analysis. Integrated this with the MERN backend and React.js dashboard for real-time insights.

**Impact: Automated feedback evaluation and improved training quality analysis for thousands of teachers across the state.**

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Additionally, I have worked on multiple MERN-based projects including e-commerce platforms, food-delivery systems, CRM applications. You can explore more on my portfolio : <https://anshul-pandya.vercel.app>