Deepanshu Sharma

Full Stack Developer | GenAI & Data Engineer

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Summary

Full Stack Developer and GenAI Engineer with prior years of experience building scalable web applications and AI-powered systems. Currently at Tata Consultancy Services, deploying RAG pipelines, multi-agent workflows, and backend services using Python, Django, Next.js, and Azure. Comfortable across the stack from designing REST APIs and database schemas to integrating LLMs and automating workflows with LangChain, LangGraph, and n8n.

Work Experience

Tata Consultancy Services (TCS) **Dec 2024 – Present**
GenAI Data Engineer *Mumbai, India*

- Designed and deployed multi-modal RAG pipelines and multi-agent systems using LangGraph and Azure AI Foundry, with retrieval evaluation via MLflow/RAGAS
- Built automation solutions using LangChain/LangGraph and automated data pipelines with n8n and Python, reducing manual effort across recurring business processes
- Implemented CI/CD pipelines using Azure DevOps and Terraform; monitored application health using Datadog
- Designed and deployed scalable web applications with Next.js; led enterprise transition and process optimization projects

Freelance / Startup Projects **June 2020 – Nov 2024**
Full Stack Web Developer *Remote / Hybrid*

- Built 6+ production-ready full-stack web applications using React, Next.js, and Django
- Designed and maintained database schemas, backend APIs, and authentication flows for startup clients
- Delivered solutions on schedule, collaborating directly with clients and small teams

Gadachandi Mining Corporation (GMC) **June 2020 – July 2022**
Web Developer / Frontend Developer *On-site / Remote*

- Developed responsive web applications and interfaces using React and Flutter
- Optimized web performance and implemented client-requested features
- Maintained code quality and collaborated with small development teams

Projects

Bhai CLI - Multipurpose AI Agent *Sep 2025*
CrewAI, LangGraph, OpenRouter, Langfuse, Hugging Face, Python *github.com/Deepanshu291/Bhai-Cli*

- Built a versatile autonomous CLI-based AI agent capable of file operations, web searches, and terminal command execution
- Designed multi-agent orchestration using LangGraph and CrewAI with observability via Langfuse to automate developer workflows end-to-end

DhristiAI - AI-Powered Search Tool *Jan 2024*
Python, Streamlit, LangChain, OpenAI, Phi-3.5, LLM/SLM *github.com/Deepanshu291/DhristiAI*

- Built a Perplexity-style AI search tool enabling intelligent, contextual information retrieval using LLMs and SLMs
- Integrated LangChain with OpenAI and Phi-3.5 to deliver grounded, real-time search responses through a Streamlit interface

Technical Skills

Languages: Python, JavaScript, TypeScript,Dart, Java, C, C++

GenAI / AI Engineering: LangChain, LangGraph, CrewAI, RAG Pipelines, Vector Search / Embeddings, ChromaDB, Hugging Face, Azure AI Foundry, MLflow (GenAI Tracing & Evaluation), RAGAS, Streamlit, n8n, LoRA/QLoRA, pytorch

Backend / Frameworks: Django, Django REST Framework, Node.js, React, Next.js, Astro, Flutter, GraphQL

Databases: PostgreSQL, MongoDB

Cloud / DevOps: Azure, Azure DevOps, Terraform, Docker, Cloudflare, Firebase, Appwrite, Datadog

Tools: Git, GitHub Copilot, Databricks, Tailwind CSS

Education

BCA, Guru Gobind Singh Indraprastha University **Dec 2020 – July 2023**
CGPA: 8.9 *India*