

AYANSH KR YADAV

Full Stack + GenAI Engineer | Kolkata, India

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Summary

Full Stack Engineer specializing in Generative AI, building production-ready RAG pipelines, autonomous multi-agent systems, and scalable web applications using TypeScript, Python, and Docker-based microservices with LangChain, LangGraph, Qdrant, and Neo4j. Shipped 3 end-to-end AI projects. Co-authored a Springer-indexed research paper. Targeting Full Stack + GenAI roles at Indian product companies and startups.

Skills

GenAI & LLMs: RAG, GraphRAG, LangChain, LangGraph, AI Agents, MCP Servers, Guardrails, Fine-tuning

Frontend: Next.js (SSR/SSG), React.js, Tailwind CSS, TypeScript, JavaScript (ES6+)

Backend & Databases: Node.js, Express.js, FastAPI, PostgreSQL, MongoDB, Qdrant, Neo4j

Cloud & DevOps: Docker (microservices), Nginx, AWS EC2/ECS/ECR, Git/GitHub, Linux

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

Experience

YBI Foundation

May 2023 – Nov 2023

Data Science, ML & Analytics Intern (Remote)

India

- Engineered ML classification pipelines using Scikit-learn and Pandas, achieving **91% model accuracy** through feature engineering and cross-validation.
- Collaborated with cross-functional teams to automate EDA workflows using Python and Pandas, cutting manual analysis time by **~40%** across 5+ real-world datasets.

Projects

GraphRAG Production Pipeline | *LangGraph, Qdrant, Neo4j, MinIO, Docker*

2025

- Architected a microservices-based 5-service Docker system (LangGraph, Qdrant, Neo4j, MinIO, Nginx) delivering hybrid retrieval with **35% higher precision** than standard RAG.
- Integrated prompt engineering, guardrails, PII detection, and RAGAS evaluation achieving LLM-as-a-Judge scores **above 0.85** across **500+ test queries**.

Autonomous AI Agent with MCP Servers | *LangChain, MCP, Llama-3, Gemma*

2025

- Built a multi-tool autonomous agent with MCP server integration and self-hosted LLMs, reducing task completion steps by **60%** vs. single-prompt approaches.
- Implemented human-in-the-loop checkpointing with session state persistence, supporting **10+ concurrent agent workflows** across distributed microservices.

AI-Powered E-Commerce Platform | *Next.js, Node.js, Express, MongoDB, Qdrant, Docker*

2026

- Built a full-stack e-commerce platform with Next.js (SSR/SSG), Express REST APIs, JWT-based role-based authentication, and an admin dashboard for product, inventory, and order management.
- Implemented semantic product search using vector embeddings with Qdrant, indexing 500+ products and returning natural-language search results in under 300ms; containerized with Docker for deployment.

Research & Certifications

- **Co-Author, Springer (AdComSys 2024)** – “Enhancing Accommodation Discovery: A Hybrid Approach to Paying Guest Recommendation Systems”
- **Machine Learning Specialization** – DeepLearning.AI & Stanford Online (Andrew Ng), Coursera

Education

B.Tech in Information Technology

University of Kalyani

2023 – 2027

CGPA: 8.0/10

Diploma in Computer Science & Technology

The Calcutta Technical School, WBSCTE

2021 – 2023

CGPA: 8.1/10