Ayush Singh

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Summary

GenAI / AI-ML Engineer specializing in **RAG pipelines, LLM applications, LangChain/LangGraph workflows, and AI Agents**. Built **production-style RAG systems**, OCR-based verification automation, and transfer learning models using **Python, vector databases, FastAPI, and Docker**. Hackathon winner (Top 10/1000 teams) with strong problem-solving background (1000+ DSA problems solved).

Education

Parul University, B.Tech in Computer Science   2022 – 2026

Experience

Capgemini, Pre-Joining Technical Training Program   Jan 2026 – Present

- Selected through campus recruitment and received an **Offer of Intent (LOI)**.
- Currently undergoing structured pre-joining training in **DSA, OOP, debugging, and coding best practices**.
- Solving company-style coding assignments with focus on **edge cases and time complexity**.

Skills

Languages : Java, C++, Python
GenAI: RAG, LangChain, LangGraph, Embeddings, Prompt Engineering
Machine Learning: Supervised Learning, Feature Engineering, Model Evaluation
Backend/Deployment : FastAPI, REST APIs, Docker, Streamlit
Databases: Vector Databases (FAISS/Chroma), SQL (MySQL)
Deep Learning: CNN, Transfer Learning, PyTorch

Projects

Local Vendor Automation - AI/ML Developer *(Hackathon Top 10/1000, ₹5000 Prize)*   **Github**
Tech Stack:: Python, LangChain, Gemini API, Ollama, EasyOCR, Transfer Learning, RAG

- Built an AI onboarding automation system with **OCR PAN verification** and fraud checks..
- Developed **transfer learning image classifier** for auto product categorization..
- Built a FastAPI backend to connect OCR + classifier + RAG chatbot into one integrated workflow**.**
- Implemented RAG chatbot + safety filtering layer for grounded FAQ responses.

AI Blog Writing Agent - LangGraph Multi-Agent + RAG System *(Feb 2026 – Present)*   **Github**
Tech Stack: Python, LangGraph, LangChain, RAG, Embeddings, Vector DB, Pydantic, Streamlit

- Built a planning-first **multi-agent blog writing system** using LangGraph orchestration.
- Integrated **RAG pipeline** (chunking, embeddings, retrieval) for grounded research-based blog generation
- Implemented router-based workflow and structured outputs using Pydantic schemas.
- Deployed Streamlit UI for an end-to-end production-style demo (working)

ACHIEVEMENTS

- PU Code Hackathon 3.0: **Top 5 out of 1000 teams**, awarded **₹5000 prize**
- Competitive Programming: **GeeksforGeeks 3-Star**, **CodeChef 2-Star**
- Rankings **Top 0.5%** in University in GFG and Codilio
- Solved **1000+ DSA problems** across LeetCode, GFG, CodeChef, Codeforces
- Google Developer Student Clubs (GDSC): **Core Member (Competitive Programming Team)**