

Rohit Rawat

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SUMMARY

CS graduate with hands-on experience building Agentic AI systems, LLM-powered applications, and RAG pipelines using Python. Practical exposure to prompt engineering, vector search, async processing, and production AI deployment through real shipped projects. Strong backend fundamentals – FastAPI, REST APIs, PostgreSQL, Redis, Docker, and CI/CD. Genuinely passionate about autonomous agents and large language models.

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University
B.Tech – Computer Science and Engineering — CGPA: 7.68

Lucknow, UP
Nov 2021 – Jul 2025

WORK EXPERIENCE

Software Engineer

SparrowBytes Fintech Solutions

Aug 2025 – Feb 2026

Gurugram, Haryana

- Built Python backend services and RESTful APIs – wrote clean, modular, testable code following OOP principles and software engineering best practices across the full SDLC.
- Worked with MySQL, PostgreSQL, MongoDB, and Redis – designed schemas, optimised queries, and implemented caching strategies to improve backend performance under production load.
- Integrated async workflows and background processing into backend services – handled concurrent requests, retry logic, and failure recovery with clear documentation.
- Containerised services with Docker and maintained CI/CD pipelines (GitHub Actions) – debugged failures on Linux and collaborated across engineering and product teams in Agile sprints.

PROJECTS

Crypto Sentiment Analysis Platform | *FastAPI, Next.js 15, PostgreSQL, Scikit-learn, NLTK, JWT, Docker* | GitHub

- Built a production-ready full-stack ML platform for real-time cryptocurrency sentiment analysis – FastAPI backend with async SQLAlchemy/PostgreSQL, JWT authentication, and rate limiting; ML pipeline using TF-IDF and an ensemble of Logistic Regression, Naive Bayes, and Random Forest with 5-fold cross-validation, achieving 92%+ accuracy. Implemented async background model retraining, an analytics dashboard with sentiment trends, and a normalised 4-table schema. Containerised with Docker and Docker Compose, with structured logging and health checks for production reliability.

NextFlow – Agentic AI Workflow Platform | *LLM APIs, Prompt Engineering, TypeScript, PostgreSQL* | Live | GitHub

- Designed and shipped an Agentic AI platform end-to-end – LLM-powered autonomous workflows using tools, planning, and memory components; Gemini AI integration with prompt engineering; DAG-based execution engine with async job processing and retry logic. Built and deployed with Docker and CI/CD. A real shipped agentic AI product.

Document AI Intelligence Platform | *Python, FastAPI, LLM Integration, RAG Pipeline, Vector Search, OCR* | GitHub

- Built a full RAG pipeline from scratch – OCR-based text extraction and chunking, embedding generation, vector search for retrieval, and LLM-powered Q&A and summarisation. FastAPI backend with async handling for concurrent inference requests. Explicit recovery paths for hallucination and extraction failures. Clean, documented Python codebase.

TECHNICAL SKILLS

AI & Agentic Systems: Agentic AI Workflows, LLM APIs (Gemini AI, Anthropic, OpenAI), Prompt Engineering, RAG Pipelines, Vector Search, Embeddings, NLP, Transformers (basic)

ML Libraries: Pandas, NumPy, Scikit-learn, NLTK, TF-IDF Vectorization, PyTorch (basic understanding); LangChain & LlamaIndex (familiar)

Python & Backend: FastAPI, Flask, Express.js, REST APIs, Async Workflows, SQLAlchemy, JWT Authentication, OOP, Design Patterns

Databases & Search: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch – Schema Design, Query Optimisation

DevOps & Cloud: Docker, Docker Compose, Kubernetes (good understanding), CI/CD (GitHub Actions), AWS (Cloud Practitioner), Linux, Git

Practices: Clean Code, TDD, Code Reviews, Technical Documentation, Agile/Scrum

CERTIFICATIONS

Principles of Generative AI – Infosys Springboard AWS Cloud Practitioner DSA with Python – Coding Ninjas Career Essentials in Software Development – Microsoft & LinkedIn