

VEDANT KAPIL - AI Engineer & Intelligent Systems Architect

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CORE COMPETENCIES

- Agentic AI & State Machines: LangChain, LangGraph, ReAct Framework, Multi-Agent Systems
- RAG & Vector Databases: ChromaDB, FAISS, Pinecone, BM25 Hybrid Retrieval, Dense Embeddings
- Machine Learning & Deep Learning: PyTorch, TensorFlow, Scikit-Learn, Transformers, Python
- Backend & Infrastructure: FastAPI, Docker, REST APIs, Git, PostgreSQL, Streamlit

FEATURED PROJECTS

1. Amazon Product Catalog RAG Pipeline

Dense semantic embeddings + BM25 keyword retrieval for e-commerce search with 94%+ precision.

2. AI Data Analyst Copilot

Autonomous SQL-generating data analyst agent using LangGraph state machines & dynamic chart viz.

3. Smart School Management AI System

Automated academic management platform with NLP query interface & automated progress reports.

EDUCATION

Bachelor of Technology in Computer Science & Engineering (AI & ML Specialization)