

Abhishek Rajbhar

AI/ML Engineer

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CSE graduate specializing in AI/ML and SIH 2025 National Winner with hands-on experience building production-grade AI systems — including multi-agent LLM pipelines, Graph RAG architectures, and full-stack AI-powered applications. Proficient in Python, LangChain, LangGraph, FastAPI, TensorFlow, and PyTorch.

EDUCATION

Theem College of Engineering – University of Mumbai

B.E. in Computer Science – AI & ML Specialization

Boisar, Maharashtra

Aug. 2022 – June 2026

PROJECTS

CodeAtlas – Multi-Agent Code Intelligence System [\[GitHub\]](#) LangGraph, Graph RAG, Qdrant, Neo4j, Tree-sitter, FastAPI, Streamlit, D3.js

- Built a production-grade Multi-Agent Code Intelligence System using Graph RAG, indexing Python codebases into Qdrant (4096-dim NVIDIA embeddings) and Neo4j (call-chain & inheritance graphs) via Tree-sitter AST parsing for syntax-aware code understanding.
- Orchestrated a 5-agent LangGraph state machine (Planner → Retriever → Graph Agent → Answer → Evaluator) with a self-correcting feedback loop that automatically re-routes answers scoring below 0.6 for hallucination grounding.
- Engineered a FastAPI backend and Streamlit dashboard with an interactive D3.js force-directed dependency graph, enabling real-time codebase exploration via parallel semantic and structural retrieval.

Chronicle – LLM Prompt Version Control System FastAPI, React, PostgreSQL, LangChain, LangGraph, Gemini, Groq, Docker

- Architected a full-stack Prompt Version Control System enabling AI developers to version, compare, and audit LLM prompts — analogous to Git for prompt engineering workflows.
- Integrated multi-provider LLM support (Google Gemini & Groq/LLaMA 3) via LangChain with real-time token counting, per-run cost estimation, and RAG-ready pipeline hooks; containerized via Docker.

Data Oracle – AI-Powered Data Analysis Assistant [\[GitHub\]](#) [\[Live Demo\]](#) FastAPI, Streamlit, Groq, Gemini, NVIDIA NIM, Pandas, Plotly, Docker

- Built a full-stack AI-powered data analysis assistant with a FastAPI backend and Streamlit dashboard, enabling users to upload CSV/Excel datasets and perform auto-cleaning (null imputation, deduplication) and one-click EDA actions — distribution analysis, outlier detection, relationship mapping, and feature engineering suggestions.
- Integrated multi-provider LLM support (Groq/LLaMA 3, Google Gemini, NVIDIA NIM) that converts natural language prompts into executable Python code via a secure sandboxed executor — blocking dangerous tokens (os, subprocess, eval), injecting safe imports, and auto-retrying on common runtime errors.

LipSense – Deep Learning Visual Speech Recognition TensorFlow, Keras, OpenCV, CTC Loss, Conv3D, Bidirectional LSTM

- Built an end-to-end lip-reading pipeline using 3D CNN (Conv3D) for spatial-temporal feature extraction and Bidirectional LSTM for sequence modelling with CTC loss.

SKILLS & CERTIFICATIONS

Programming

Python, JavaScript (TypeScript), SQL, Bash

AI & LLM Frameworks

LangChain, LangGraph, Graph RAG, RAG, Agentic AI, Multi-Agent Systems, Prompt Engineering, Few-Shot Learning, Chain-of-Thought, LLM Evaluation, Hugging Face

ML & Deep Learning

TensorFlow, Keras, PyTorch, Scikit-learn, CNN, ResNet, LSTM, Conv3D

Vector & Graph DBs

Qdrant, FAISS, ChromaDB (conceptual), Neo4j, Semantic Search, Embedding Pipelines

Computer Vision & NLP

OpenCV, spaCy, Tree-sitter, AST Parsing, Text Classification

Data & Analytics

Pandas, NumPy, Feature Engineering, Statistical Analysis, EDA, Plotly, Matplotlib, Seaborn

Backend & APIs

FastAPI, Streamlit, RESTful APIs, PostgreSQL, Docker, Microservices, GitHub Actions, CI/CD

Cloud & Deployment

AWS, GCP, Docker, Hugging Face Spaces, Git

Certifications

AWS Academy – Data Engineering | IBM – AI Fundamentals | IBM – Cybersecurity Fundamentals

ACHIEVEMENTS & EXTRA-CURRICULAR

Winner – Smart India Hackathon (SIH) 2025, National Level

Govt. of India | 2025

Developed a decentralized swarm coordination framework for autonomous drones to collaboratively engage adversarial drone swarms while prioritizing ground asset protection and minimizing friendly drone losses.

Member – National Service Scheme (NSS)

Theem College of Engineering | 2022–2026

Community outreach, social awareness campaigns, and volunteer-driven development programs.