

Sahil Lad

AI/ML Engineer — LLMs • MLOps • FastAPI

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SUMMARY

AI/ML Engineer specializing in **Agentic RAG systems**, **LLM-powered applications**, and **MLOps pipelines**. Experienced in building scalable AI systems using **LangChain**, **FAISS**, and **FastAPI**, with a focus on deployment, performance optimization, and system design.

EXPERIENCE

AI Intern — TalaKunchi Networks Pvt. Ltd.

June 2026 – Present

- Developed an AI-powered Threat Intelligence Assistant using Python, FastAPI, Gemini, VirusTotal, and AbuseIPDB to analyze IPs, domains, URLs, and threat reports and generate explainable risk assessments and investigation recommendations.
- Contributed to an internal Resource & Project Management System, developing .NET/C# backend APIs, database integration, and Resource Management workflows based on stakeholder requirements.

PROJECTS

Autonomous Data Scientist Agent

[GitHub](#)

Python, FastAPI, LangChain, FAISS, Supabase, Docker

- Built a production-grade Agentic AI system using LangChain + Gemini 2.5 Flash for multi-step reasoning.
- Designed a scalable RAG pipeline with FAISS vector search and real-time retrieval.
- Enabled multi-step agentic reasoning (web search + Python execution) for data analysis workflows.
- Deployed using FastAPI and Docker with persistent session memory (Supabase).

End-to-End Customer Churn Prediction (MLOps)

[GitHub](#)

Python, XGBoost, DVC, MLflow, FastAPI, Docker, GitHub Actions

- Built a complete MLOps pipeline with DVC and MLflow for experiment tracking and model versioning.
- Achieved F1-score of 0.59 through model benchmarking on imbalanced data.
- Implemented CI/CD using GitHub Actions and deployed FastAPI service with Docker.

Smart Agriculture Recommendation API

[GitHub](#)

Python, FastAPI, Scikit-learn, PyTorch, OpenCV, Docker

- Developed a multi-service ML API for crop recommendation, yield prediction, and disease detection.
- Trained CNN model achieving 94% accuracy for disease classification.
- Implemented OpenCV-based validation pipeline to improve prediction reliability.

EDUCATION

Thakur College of Science and Commerce

Mumbai, India

M.Sc. Data Science — CGPA: 8.09/10

R.P. Gogate College

Ratnagiri, India

B.Sc. Information Technology — CGPA: 8.5/10

SKILLS

Languages: Python, SQL

ML & AI: Scikit-learn, XGBoost, PyTorch, LangChain, FAISS, LLMs

MLOps & Tools: MLflow, DVC, Docker, GitHub Actions, CI/CD

Backend: FastAPI, .NET, C#

Data: Pandas, NumPy, Matplotlib, OpenCV

LANGUAGES

English — Hindi — Marathi