

ADI JAIN

AI/ML Engineer | Full-Stack Software Engineer | B.Tech CSE (AI)

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Summary

AI/ML Engineer and Full-Stack Software Engineer who ships **LLM, RAG, and machine-learning** systems to production. Hands-on with Python, FastAPI, Next.js/React, PyTorch, scikit-learn, Docker, and Google Cloud. Delivered a **45%** page-load reduction for a university platform (150+ programs), time-series ML pipelines at **0.89 ROC-AUC**, and containerized microservices with WebSockets, computer vision, and semantic-search RAG.

Skills

Languages: Python, TypeScript, JavaScript (ES6+), SQL, C++

AI / ML & GenAI: PyTorch, scikit-learn, XGBoost, Optuna, SHAP, CNNs, NLP, LangChain, RAG, Vector DBs (ChromaDB), LLM APIs (Gemini, Groq), Vapi (Voice AI), MediaPipe (Vision), Prompt Engineering

Frameworks & Frontend: FastAPI, Next.js, React, Node.js, Three.js, Recharts, TailwindCSS, Zustand, TanStack Query

Backend, Data & Databases: REST APIs, WebSockets, SQLAlchemy, Prisma, Drizzle ORM, Alembic, Pandas, NumPy, Pydantic, ETL; PostgreSQL, MySQL, MongoDB, Neon, Supabase, Firebase

Cloud & DevOps: Google Cloud (Gemini, Firebase, OAuth), Docker, Vercel, Render, GitHub Actions (CI/CD), Cloudinary; NextAuth, OAuth 2.0, JWT; pytest, Vitest, Git

Work Experience

Teerthanker Mahaveer University — *Web Developer Intern* **Feb 2026 – May 2026**

- Cut page load time by **45%** via adaptive HLS video streaming, image compression with lazy-loading, critical-asset preloading with script deferral, and Laravel DB query optimization (eager loading + caching).
- Redesigned the homepage (Laravel) serving **150+** academic programs in an **Agile/Scrum** team, raising average session duration **28%** through improved information architecture.

EvoAstra Ventures Pvt. Ltd. — *Data Science Intern* **Sept 2025 – Dec 2025**

- Built a market-level time-series churn pipeline on **~1,700** TRAI records, engineering 40+ temporal/competitive features to predict circle-level subscriber decline ($\geq 5\%$ MoM).
- Trained and benchmarked **4 ML models** (Logistic Regression, Random Forest, XGBoost, LightGBM) with SMOTE rebalancing; shipped a scikit-learn pipeline and FastAPI prediction endpoint.

Projects

InterviewPilot — **AI Voice Mock-Interview Platform** | *Next.js, Vapi, FastAPI, Docker* interviewpilot.adijain.click

- Built real-time **Vapi** voice AI with client-side **MediaPipe** expression tracking; deployed a Dockerized FastAPI microservice on Render (GitHub Actions CI/CD) running a **4-model ML pipeline** for scoring and archetypes.

Exyst — **AI Exam Paper Analyzer** | *Next.js, FastAPI, Gemini, ChromaDB* exyst.adijain.click

- Built a 6-stage pdfminer extraction pipeline + LLM page-classifier (**95%** accuracy) and a **ChromaDB** semantic-search **RAG** layer, lifting prediction confidence from 0.45 to 0.72.

TeleChurn — **Telecom Market-Share Churn Predictor** | *Python, FastAPI, XGBoost, Optuna* telechurn.adijain.click

- Architected an Optuna-tuned time-series ensemble with SMOTE under TimeSeriesSplit, reaching **87.2%** accuracy and **0.89 ROC-AUC**; built a FastAPI dashboard prescribing retention playbooks.

CoinPush — **Real-Time Crypto Screener** | *Next.js, WebSockets, CoinGecko API* coinpush.adijain.click

- Built WebSocket-driven candlestick charts with live price feeds and a debounced Cmd+K command-palette search (SWR), preventing API rate-limit breaches and race conditions under high query load.

PneumoAI — **Pneumonia Detection System** | *PyTorch, FastAPI, React* youtu.be/ppJ2CQorY5g

- Trained a **PyTorch** CNN reaching **92%** accuracy on chest-X-ray data, served via FastAPI + React with sub-**500ms** responses; a noise-reduction/normalization pipeline added **12%** performance.

Education

B.Tech, Computer Science Engineering — AI, ML & Deep Learning

Teerthanker Mahaveer University, Moradabad

GPA: 8.52 / 10

Aug 2022 – May 2026

Certifications

Artificial Intelligence (Intermediate) — [IBM Skills Network](https://www.ibm.com/skills)

2025