

Abhishek Tiwari

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SUMMARY

AI & Machine Learning Engineer with hands-on experience in Generative AI, OCR-based document intelligence, and time-series forecasting systems. Experienced in building scalable ML pipelines and deploying production-ready APIs using FastAPI. Focused on AI-driven automation, LLM applications, and intelligent decision systems.

PROJECTS

AI Supply Chain Forecasting & Inventory Optimization System (2026)

- Architected multi-SKU, multi-city demand forecasting engine using **LightGBM**.
- Engineered advanced time-series features (lag variables, rolling statistics, cost signals).
- Implemented 10-week recursive forecasting with hierarchical fallback logic.
- Deployed production APIs using **FastAPI** for real-time inference.
- Integrated inventory intelligence including Reorder Point (ROP) and Safety Stock estimation.

Hybrid OCR-Based Intelligent Document Processing System (2026)

- Built OCR pipeline using **DocTR**, **PaddleOCR**, **OpenCV** for extracting structured data.
- Implemented document classification and field-level extractors.
- Designed modular pipeline (OCR engine, classifier, extractor, API layer).

AI Decision Support Chatbot (LLM + FastAPI) (2026)

- Developed LLM-powered chatbot for forecasting and inventory queries.
- Integrated backend ML outputs with structured response generation.
- Built REST-based conversational backend using FastAPI.

INTERNSHIP

AI / ML Intern — Nippon Data Systems

Nov 17, 2025 – Present

- **AI Supply Chain Forecasting & Inventory Optimization System (2026):** Engineered multi-SKU forecasting engine using LightGBM and FastAPI-based inference APIs.
- Developed OCR-based pipelines using **DocTR** and **PaddleOCR** for structured KYC extraction.
- Designed LLM-integrated FastAPI services for intelligent automation workflows.
- Built modular backend separating model training, inference, OCR, and chatbot layers.

TECHNICAL SKILLS

Programming	Python, SQL, C/C++ / DSA
Data Science	Machine Learning, Deep Learning, Pandas, NumPy, Matplotlib, Excel
Generative AI	RAG, LangChain, OpenAI API, Vector DBs (Pinecone, Chroma), Hugging Face, NLP, Prompt Engineering
Backend	Python, FastAPI, REST APIs
Database	PostgreSQL, MySQL
Tools	Git, Linux, Docker, CI/CD Basics

EDUCATION

2021–2025	ABES Engineering College, Ghaziabad — B.Tech CSE (AI & ML), GPA: 7.3/10
2019	BSEB (Higher Secondary), PCM — 69.6%
2017	BSEB (Secondary) — 68.4%

CERTIFICATIONS

Data Science — CodeSquare (2024)
SQL — HackerRank (2024)
CCNA — Cisco (2024)