

Mohd Atif

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Summary

AI/ML Engineer with experience in machine learning, predictive analytics, LLM applications, and real-time intelligence systems. Skilled in FastAPI, RAG pipelines, forecasting models, ETL workflows, and scalable API architectures.

Professional Experience

Data Analyst Intern (ML & Analytics)

Arabania Indo-Arabia Restaurant

June 2024 – May 2025, Lucknow

- Developed demand forecasting models using time-series analysis and Python (statsmodels, scikit-learn), reducing food waste by 20%.
- Conducted hypothesis testing and A/B experiments on pricing strategy, improving gross margins by 15%.
- Built feature-engineered models for SKU performance prediction using classification techniques, identifying optimization opportunities.
- Created SQL-driven analytics pipelines (CTEs, window functions) analyzing 100K+ sales records to extract seasonality and trend patterns.
- Built Power BI dashboards supporting operational and inventory decision-making.

Projects

AI Customer Churn Intelligence Platform

Live App

FastAPI, Scikit-learn, LLM Integration, Streamlit

- Built production-grade FastAPI backend with modular architecture and real-time inference workflows.
- Achieved 92% churn prediction accuracy using behavioral features and explainability pipelines.
- Integrated provider-agnostic LLM workflows for contextual customer retention recommendations.
- Built batch CSV processing pipeline with customer-level risk scoring and scenario simulation.

European Energy Market Forecasting Pipeline

GitHub

XGBoost, Time Series Modeling, Python, RAG

- Built forecasting system achieving 20–35% improvement over baseline with confidence interval estimation.
- Engineered lag-based and rolling statistical features for robust market prediction.
- Implemented automated validation framework covering outlier detection and economic sanity checks.
- Developed trading signal logic with PnL simulation and AI-generated market reports.

Urban Analytics Real-Time Intelligence Dashboard

Live App

Streamlit, REST APIs, Geospatial Analytics

- Built real-time forecasting and anomaly detection workflows for traffic and weather systems.
- Integrated multiple APIs with automated refresh, validation, retry handling, and caching layers.
- Developed geospatial dashboards with live monitoring and district-level drill-down analytics.

Technical Skills

Machine Learning: Scikit-learn, XGBoost, TensorFlow, Time Series Forecasting, Feature Engineering, Statistical Modeling

Programming: Python, SQL, R, Pandas, NumPy, FastAPI, Flask

LLM & AI: OpenAI API, Groq API, LangChain, RAG, Embeddings, Prompt Engineering

Tools: Docker, Git, Streamlit, Power BI, Tableau, Plotly, Jupyter

Certifications

- Google Data Analytics Professional Certificate
- Prepare Data for Exploration
- Ask Questions to Make Data-Driven Decisions
- Foundations: Data, Data, Everywhere

Education

Indian Institute of Technology, Madras
BSc. in Data Science and Applications

2022 – 2025