

# Aditya Jha

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## SUMMARY

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Passionate about building intelligent products at the intersection of artificial intelligence, data, and software engineering. I enjoy creating end-to-end applications, tackling complex challenges, and crafting scalable solutions with clean design and meaningful user experiences. Motivated by curiosity, innovation, and continuous growth.

## EDUCATION

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**Indian Institute of Technology Madras**

BS in Data Science & Applications | Expected Graduation: 2028

## PROFESSIONAL EXPERIENCE

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**Business Analytics Consultant (Capstone Project)**

*April 2025 – June 2025 | Dualhush Designs, Noida*

- Analyzed sales, inventory, product, and customer datasets (2023–2026) to identify inventory trends, product profitability, and seasonal demand patterns that supported business decision-making.
- Performed data cleaning, validation, and exploratory data analysis (EDA) using Python, SQL, and Excel to prepare reliable datasets for analysis and reporting.
- Developed interactive Power BI and Excel dashboards to visualize inventory performance, sales trends, product profitability, and key operational KPIs.
- Presented data-driven recommendations for inventory replenishment, product prioritization, and seasonal demand planning to improve operational efficiency.

## TECHNICAL PROJECTS

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**InsightForge – AI-Powered Business Intelligence Platform**

[Link](#)

*Next.js • FastAPI • AWS Aurora PostgreSQL • Prisma • Gemini AI*

- Engineered a full-stack AI-powered business intelligence platform that transforms raw business datasets into interactive dashboards, forecasts, and executive reports.
- Built automated dataset detection and intelligent column-mapping pipelines supporting sales, inventory, customer, and financial datasets.
- Implemented forecasting, anomaly detection, business health scoring, and AI-generated insight modules for operational decision support.
- Designed scalable backend architecture using FastAPI, Prisma ORM, and AWS Aurora PostgreSQL.
- Integrated Gemini AI to generate executive summaries, business recommendations, and natural language insights from uploaded datasets.

**Workforce Demand Forecasting System**

[Link](#)

*Python • Pandas • Scikit-learn • Excel • Time-Series Forecasting*

- Developed forecasting models to predict hourly workforce demand using historical operational datasets.
- Applied regression and time-series techniques to estimate staffing requirements and workload fluctuations.
- Designed interactive Excel dashboards with Pivot Tables and visualizations for forecast validation and workforce planning.
- Improved decision-making through data-driven staffing optimization strategies.

## Dynamic Pricing Optimization System

[Link](#)

*Python • XGBoost • Flask • Machine Learning*

- Built an XGBoost regression model to predict airline ticket prices using booking lead time, travel schedules, stop type, and seasonal demand patterns.
- Designed a pricing simulation framework to evaluate revenue optimization strategies under varying market conditions.
- Deployed the trained model as a Flask REST API capable of serving real-time fare predictions.
- Evaluated model performance using regression metrics and feature importance analysis.

## TECHNICAL SKILLS

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**Programming Languages:** Python, SQL, Java, JavaScript, TypeScript

**Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, XGBoost, Forecasting, Regression, Classification, Feature Engineering, Model Evaluation, Exploratory Data Analysis

**Business Analytics:** Power BI, Advanced Excel, Power Query, Pivot Tables, INDEX-MATCH, VLOOKUP, Dashboard Development, Data Cleaning, Data Wrangling, Business Intelligence

**Statistics:** Hypothesis Testing, A/B Testing, Confidence Intervals

**Backend & Databases:** FastAPI, Flask, REST APIs, PostgreSQL, Prisma ORM, AWS Aurora PostgreSQL

**Cloud & Tools:** AWS, Git, GitHub, Docker, Jupyter Notebook, Vercel