

AI-Driven Supply Chain Performance Dashboard

End-to-End Business Intelligence Solution with AI Forecasting, KPI Automation, and Real-Time Supply Chain Optimization

Project Description

This project presents a comprehensive AI-Driven Supply Chain Performance Dashboard, meticulously developed to equip organizations with real-time, actionable insights across their entire supply chain network. It leverages advanced technologies such as AI-powered predictive analytics, anomaly detection, and intelligent data visualization to enhance decision-making speed and accuracy.

Key Features

- **AI-Enabled Predictive Analytics:** Automatically forecasts inventory needs, supplier performance, and demand fluctuations, reducing operational costs and increasing efficiency.
- **Dynamic KPI Monitoring:** Tracks key metrics in real time, including Order Fulfillment Rate, On-Time Delivery, Inventory Turnover, and Transportation Costs.
- **Anomaly Detection:** Provides instant alerts for irregular patterns and potential supply chain disruptions using AI-based detection models.
- **Interactive Visualizations:** Presents complex supply chain data through clean, modern, and intuitive visuals that accelerate comprehension and insight.
- **Seamless Data Integration:** Consolidates and harmonizes data from various sources such as ERP systems, Excel spreadsheets, and APIs into a unified analytical view.
- **AI-Driven Recommendations:** Offers intelligent suggestions to optimize logistics operations and inventory management, outperforming traditional manual analysis.

My Contribution

I independently designed, developed, and deployed this end-to-end AI-enhanced solution using Power BI. The project involved integrating machine learning models, constructing robust data pipelines, and implementing advanced data visualization techniques. My unique analytical workflow enabled results to be delivered up to 10 times faster than conventional approaches, offering stakeholders immediate clarity and a strategic competitive edge.

Value Proposition

This project differentiates itself by integrating state-of-the-art AI capabilities directly into the analytics process. It goes beyond traditional dashboards by delivering:

- Efficient solutions to complex supply chain challenges
- AI-powered tools that drive measurable performance improvements
- Rapid business value with faster insights and strategic guidance

Through this project, I demonstrated my ability to raise the standard of analytics delivery, ensuring organizations gain exceptional insights and achieve significantly accelerated results.