DataToBiz

Empowering Warehousing Efficiency Of An Electronics Manufacturing Firm

ABOUT CLIENT

- A renowned electronics manufacturer, based in the USA, with operations spanning 7 other countries across the globe.
- They specialize in the design, development, and manufacturing of consumer electronics, including smartphones, tablets, smart home devices, and wearable technology.

PROBLEM STATEMENT

- **Lack of real-time visibility:** The client faced challenges in obtaining real-time visibility into their warehousing process, making it difficult to track inventory levels, identify bottlenecks, and optimize operations.
- **Inefficient inventory management:** The existing manual inventory management system resulted in inaccuracies, stockouts, overstocking, and increased carrying costs.
- **Inadequate demand forecasting**: The client struggled with accuracy in forecasting demands, leading to imbalances in inventory levels and resource allocation.
- **Lack of performance tracking:** The client lacked a comprehensive performance tracking system to monitor key performance indicators (KPIs) related to warehousing operations, such as order fulfillment rates, cycle times, and inventory turnover.

SOLUTIONS

- **Data integration and consolidation:** We implemented a data integration solution to gather raw data from various sources, including the client's warehouse management system, ERP, and IoT sensors.
- **Data cleansing and transformation:** We cleansed and transformed the data to ensure accuracy, consistency, and compatibility for analysis.
- **Development of a BI dashboard:** We developed a comprehensive Power BI dashboard that provided real-time insights and visualizations on inventory levels, order status, demand trends, and warehouse performance metrics.
- **Predictive analytics for demand forecasting:** We employed predictive analytics models to forecast demand based on historical data, market trends, and external factors.
- **Automation:** Our experts discovered avenues for automation and process optimization, including the automation of inventory tracking processes and the strategic optimization of warehouse layout to enhance picking and storage efficiency.

Industry

Manufacturing

Products used

Power BI
Dashboard

Functionality Enable

Data science

Impact

9%
Reduction in Stockouts and 10% Decrease in Overstocking: Real-time insights from the Power BI dashboard enhanced inventory visibility

11%
Cost Reduction and 98% Inventory Accuracy

17%
Improved Demand Accuracy: Utilizing predictive models, demand forecasting accuracy saw this enhancement, greatly aiding in resource allocation and planning.

8%
Better Order Fulfillment, 13.4% Quicker Cycle Times, and Enhanced Inventory Turnover.

11.5%
Lower Labor Costs and Increased Warehouse Capacity Use.

pro tip

Custom Power BI dashboards are curated for each and every manufacturing challenge.

Take the next step

Leverage Intelligent Insights Today!