**Learn How a Fortune 500 Transportation & Logistics Giant Reduced Their Data Costs by $100,000**

**Key Highlights**

$100,000: Annual reduction in data aggregation costs

82%: Vessel ETA prediction accuracy with AI-backed models

85+ Stakeholders: Across 20 teams now use the data analytics platform for actionable insights

**About the Client**

The client is a Fortune 500 transportation and logistics company specializing in ocean and inland freight services. Their comprehensive offerings include supply chain management, port operations, and end-to-end logistics solutions. Renowned for their scale and reach, the client sought to modernize their data strategy to streamline logistics and improve decision-making.

**Challenges**

The client relied on a legacy approach to data collection, which presented the following challenges:

1. Difficulty in collecting relevant data in real-time to predict vessel Estimated Time of Arrival (ETA) accurately.

2. Inefficiencies in logistics and freight management processes.

3. Higher operational costs due to outdated workflows and disconnected systems.

4. Lack of advanced systems hindering smarter decision-making and process automation.

These challenges obstructed their ability to optimize operations, leading to increased costs and operational delays.

**What We Did**

DXFactor deployed a comprehensive data strategy to address these challenges by implementing:

1. Data Acquisition and Architecture: Ensured seamless data collection from multiple sources and structuring.

2. Data Shaping and Machine Learning: Built machine learning models to process and analyze historical and real-time data.

3. Forecasting Models: Developed predictive analytics for vessel ETA, container arrangement, and resource forecasting.

4. Advanced Data Visualizations: Provided stakeholders with actionable data visualizations and insights dashboards.

**Solution**

DXFactor’s in-house team of data engineers and scientists designed and deployed a next-generation intelligence platform. This solution synchronized data across the client's Transportation Management System (TMS) and external reporting tools, ensuring real-time access to actionable insights for all stakeholders.

1. Dynamic Intelligence Platform: Designed a centralized system synchronizing all TMS activities and external reporting tools for seamless data sharing and synchronization.

2. Workflow Optimization: Eliminated outdated processes and replaced them with intelligent, data-backed automation. The new system handles historical shipment analysis, terminal status updates, and appointment scheduling with zero human intervention, improving productivity and process efficiency.

3. AI-Powered Predictive Models: Built predictive models to forecast vessel ETA, manage on-port container arrangements, and recommend empty returns, enabling smarter resource allocation and operational planning.

4. User-Centric Design: Developed an intuitive interface with a 360-degree view of logistics data, enabling teams to monitor and act on real-time updates effectively.

**Benefits**

Cost Efficiency: Achieved an annual reduction of $100,000 in data aggregation costs.

Improved Forecasting: Improved vessel ETA prediction accuracy to 82%, minimizing delays and improving scheduling.

Stakeholder Adoption: Empowered 85 stakeholders across 20 teams with actionable insights and real-time notifications.

Operational Efficiency: Introduced intelligent workflows that eliminated inefficiencies, providing the client with a substantial market advantage.

**Results and Outcomes**

DXFactor revolutionized the client’s data strategy, equipping them with cutting-edge tools and processes. The solution has proven so effective that the client plans to extend it to their rail and road transportation divisions.

$100,000: Savings in data aggregation costs annually.

82%: Prediction accuracy in ETA using AI-driven models.

85 stakeholders: Adopting it across 20 teams for improved collaboration and decision-making.