



AI-Assisted Transport Optimization for Mixed Industrial Cargo

Automotive Parts Distribution / Third-Party Logistics

Transport Analytics | Load Optimization

Business Challenge

An industrial enterprise distributes thousands of different spare parts through multiple third-party logistics partners. Shipments range from approximately 5 kg to several hundred kilograms and include unusual shapes and multiple packaging formats, making it difficult to determine best truck utilization, loading sequence, carrier selection and cost-efficient consolidation.

Solution

A transport optimization engine ingests shipment dimensions, weight, destination, delivery priority and available carrier capacity, then recommends optimal load composition, loading sequence and carrier selection.

- Optimal Load Composition - determines which shipments can efficiently travel together
- Loading Sequence - what should be loaded first, last, bottom or top
- Carrier Recommendation - based on historical cost, service level, destination
- Transport Analytics - utilization, freight cost, delivery performance, route trends

Solution Flow



Business Value

The platform can help enterprises improve freight utilization and transportation planning without requiring ownership of their own fleet.

TECHNOLOGY

Optimization Algorithms, Machine Learning, Data Analytics, ERP Integration, Transport Management Dashboard