



Businesses are increasingly reshaping their mindset, looking for solutions to secure and develop shorter supply chains with stronger climate credentials, prevent disruptions, and secure financial stability.

Al can be the answer to most of these challenges.

Al-based solutions can streamline the maritime sector in several ways by providing:

- evaluation and optimization of overall processes
- insights regarding future trends
- risks prediction
- calculation of optimal costs

Harnessing AI in the supply chain provides logistic companies with end-to-end automation, minimizing logistics while maximizing deliveries on time.

The cost of logistics can and should be modeled by the analysis of "what-if": taking into account fines for non-compliance with the terms of contracts, payment of delays of ships (demurrage), and the cost of storing runoff in warehouses in the port.

Al in Supply Chain Optimization

The new logistics optimization system gives the user the possibility of multidimensional analysis of key performance indicators:

- Increased customer orders completed on time
- Reduce transportation and stock costs
- Save hours of manual works thanks to automation

Optimization system features

- Vessel price prediction
- Inventory management analysis
- Routes optimization
- Risk estimation
- Trends forecast

Addepto Case Study

Ochallenge

The company managed its shipping and inventory mostly manually. Managers used spreadsheets, entered data into complex SAP ERP systems, and exchanged tons of information about cargo and vessel nominations or notices of vessels' ETAs via phone calls and emails. The process was slow, inefficient, and sensitive to mistakes.

Solution

Implemented Al-driven logistics optimization engine allows **automatically optimizing transportation routes** mostly by vessels but also trucks and trains. It considers various factors: loading rate, distance, average vehicle speed, sailing time, fuel consumption, MGO, order volume, material type, and deadlines.

Additionally, it was enhanced by predictive modeling to **forecast market vessel prices** based on macroeconomic factors and seasonality.

- Unified Platform for Managing Supply Chain
- Predictive Al Modules

Benefits

After implementing the AI platform developed by Addepto, the manufacturer was able to stay abreast of the **live status of their inbound major raw material vessels.** Thanks to automation, logistic expenses were reduced **(by an average of \$1.5 per ton)**, and the number of customer orders completed on time increased.



Addepto offers various AI services representing a whole spectrum roadmap to production-grade AI solution deployment. Addepto will help you find your company's best solution and implement it!

We specialize in building solutions based on:

- Artificial Intelligence
- Big Data
- Data Engineering
- Machine Learning
- Natural Language Processing (NLP)
- Data Science.

If you are looking for more details or want to ask us some questions, do not hesitate to contact us!



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