# AI in Logistics & Transportation Industry

## Demand Prediction

Demand prediction is known as the process of making future estimations in relation to customer demand over a specific period. Logistics demand forecasting is a way for companies to accurately anticipate the demand for products and shipments throughout the supply chain, even under uncontrollable conditions or circumstances. It is a way for companies to accurately anticipate the demand for products and shipments throughout the supply chain, even under uncontrollable conditions or circumstances.

### Benefits

➡ Reduces risks
➡ Makes efficient financial decisions
➡ Impacts profit margins
➡ Cash flow
➡ Allocation of resources
➡ Opportunities for expansion
➡ Inventory accounting
➡ Operating costs
➡ Staffing

### Details

It is the process of using predictive analysis of historical data to estimate and predict customers' future demand for a product or service. Demand forecasting helps the business make better-informed supply decisions that estimate the total sales and revenue for a future period of time.

## Unloading Time Prediction

The problem of transport optimization is of great importance for the successful operation of distribution companies. To successfully find routes, it is necessary to provide accurate input data on orders, customer location, vehicle fleet, depots, and delivery restrictions. Most of the input data can be provided through the order creation process or the use of various online services. One of the most important inputs is an estimate of the unloading time of the goods for each customer. The number of customers that the vehicle serves during the day directly depends on the time of unloading.
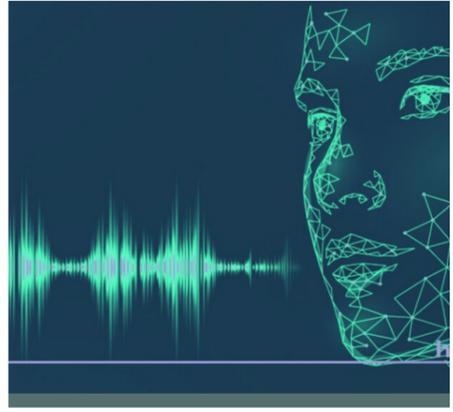
### Benefits

➡ Portability
➡ Efficiency
➡ Agility
➡ Faster delivery
➡ Improved security
➡ Faster app startup
➡ Easier management
➡ Flexibility

### Details

The number of customers that the vehicle serves during the day directly depends on the time of unloading. This estimate depends on the number of items, weight and volume of orders, but also on the specifics of customers, such as the proximity of parking or crowds at the unloading location. Customers repeat over time, and unloading time can be calculated from GPS data history.

## Text Processing

Text processing refers to only the analysis, manipulation, and generation of text, while natural language processing refers to the ability of a computer to understand human language in a valuable way. Basically, natural language processing is the next step after text processing.

### Benefits

➡ Analyses their customer surveys or product reviews to classify customers as promoters, passives, or detractors based on their answers to open-ended questions about the brand

➡ In Logistics and Transportation industry, text processing can help make customer support easier to handle

➡ Improves the accuracy and amount of valuable data

➡ Helps to take uninformed decisions

### Details

Text processing allows businesses to automate processes that provide valuable insights, leading to more informed decision making. Customer experience can be greatly improved using automated text processing.

## Unload Progress Prediction

In terms of Unloading Progress Prediction, the service of loading or unloading vessels to any place on the terminal and trucks, lighters or barges to any other means of conveyance to or from the terminal facility. The unloading process consists of the movement of the received goods from the container (trailer, rail car, or other delivery method) to the dock floor for proper checking. These goods can arrive on the floor of the container or on pallets.

### Benefits

➡ Increases employee efficiency
➡ Makes better decisions
➡ Reduces cost

### Details

AI is when machines display learning patterns, so they're able to grow their knowledge through learning. These machines can recognize patterns and collect data to analyse, predict, and track future changes. Artificial intelligence is quickly taking over transportation management. These technologies are optimising shipment and making unloading processes more efficient, productive, and profitable.

## What AI can do for you?

| Business Planning | Decision-making Insights | Customer Insights | Process Automation |