

Intelligent Inventory Allocation

Business Impact numbers

12%

Improvement in customer satisfaction & 10% increase in repeat customer orders

15%

Improvement in service level

Time to execution

3

Weeks to Pilot

8-10

Weeks – Time to market

Problem Overview

Develop a ML based Intelligent inventory allocation solution that enables allocation and inventory assignment better across customers and markets

High level approach/solution framework

The combination of Tredence's AI & advanced Data Science capabilities and Databricks' data processing provides a methodology to distribute the existing stock to most valuable customers

- Segments customers based on volume, margin, recency & order frequency, relationship and industry
- Allocate available inventory to hot regions and most profitable customers
- Align with user preferences while learning from previous manual overrides

Azure architecture or Azure components used



ADF Pipelines



Azure MS-SQL Database



Microsoft Power BI

Usage stats at a high level

2500+

SKUs

10+

DC/Warehouse and Transportation KPIs

8

techniques in ensemble for 1200 models every week