



2026 | CASE STUDY | NETWORK SCIENCE

INVENTORY OPTIMIZATION FOR LUXURY RETAIL WITH AI

Overview

1.

An internationally renowned luxury retail conglomerate managing watch, eyewear, jewellery, and lifestyle brands across hundreds of stores struggled with inventory imbalances – chronic overstocking in some locations and stockouts in others. Network Science deployed an AI-driven inventory optimization system to bring precision and visibility across the entire network.

Solutions & Strategy

2.

Implemented an intelligent inventory management system that balanced demand, reduced overstocking, and improved product availability through real-time insights.

Solution

Inventory Intelligence Platform

AI Demand Forecasting

Real-Time Inventory Visibility

Automated Stock Alerts



4.

- Overstocking reduced by 30%, freeing up significant working capital.
- Stock availability improved by 15%, reducing customer-facing stockouts.
- Decision-making accelerated through automated, real-time inventory insights.
- Store-level stock allocation optimized across the full retail network.



By combining AI forecasting with automated inventory planning, the retailer improved operational efficiency and customer experience at scale.

