

BUILDING SUPPLY CHAIN SOLUTION STRATEGY

Optimizing Inventory Planning
& Promotional Strategy



Business

*One of the largest
retailer
in the world*

Challenge

*End to End strategy to
manage the entire
supply chain of the
client for better fore-
casting, inventory,
and pricing planning*

Solution

*Supply chain manage-
ment program with a
global view and
insights into opera-
tional, pricing
& promotional*

THE NEED...

- Understand and access the existing Mainframe and Teradata landscape to design and develop data pipelines for supply chain data ingestion (Data Lake).
- Build data layers and algorithms for multiple supply chain users.
- Build CI/CD, scheduling, monitoring and alerting pipelines.
- Source, clean, transform, and store data.
- Build test framework to test the entire ingestion pipeline.

HOW WE DID IT

Supply Chain Management Solution

- Data from different systems such as Warehouse Management, Retail Merchandise, Retail Merchandise System Integration Layer, Group Ordering, Continuous Replenishment, Logistic Management was extracted, cleansed, and transformed as per business standards.
- A Data ingestion framework was built that was easy to integrate with existing architecture/ecosystem Developed common frameworks with Scala, Python, Shell script that can be re used for all ingestion pipelines.
- Data layers for supply chain users were built and algorithms used to perform the analysis were KALMAN for NWS forecast (Notional weekly sales) and Kmeans for PTP calculation(Product trading percentage).
- Build automation using Maven.
- Custom Scala scripts bash templates were used to reuse the code for multiple feeds.
- Jenkins was used as a CI tool for orchestrating the build, executing unit integrations tests scheduling Hadoop jobs.

TECH STACK



Plan, Execute and Manage Supply Chain Strategies



01

Better planning for planogram and mezzanine on stores

02

Accurate sales forecast information by maintaining 10 years teradata

03

Optimized inventory, pricing planning, and predictive maintenance

Effective sales and customer service forecasting

It made a huge impact



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