FMCG Forecasting

Function: #Forecasting | Industry: #FMCG



Goal

- Forecasting and Demand Planning: To predict product demand and manage inventory to avoid stock-outs.
- Profitability Maximisation: To maximise profits by analysing sales channels and products, and allocating resources to highprofit areas for revenue growth.

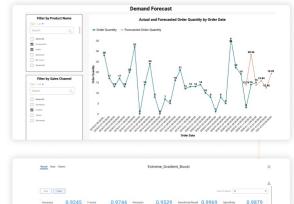
Technique

- · Statistical Analysis
- · Data Modelling
- · Time Series Forecasting
- Visualization

Impact

- Optimised inventory management and supply chain corresponding to economic and market factors.
- Improved customer satisfaction and loyalty through consistent quality and availability of the products across different regions

Result





Value Points

Understand the what, why, when, where & how

Exploratory Analysis

Exploratory Data Analysis On The Preprocessed Data To Derive Meaningful Data Insights



Identify patterns and generate insights to summarise the main characteristics

Exploratory data analysis enables business owners to derive meaningful insights and making better data-driven decisions as opposed to intuitive ones.

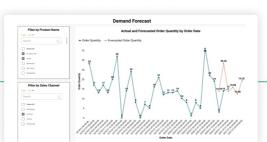




Applied multiple classification algorithms and then based on accuracy metric, best fit is identified

Classification obtained through profit percentage has the potential to optimise supply chain operations, improve inventory management, and enhance marketing strategies.





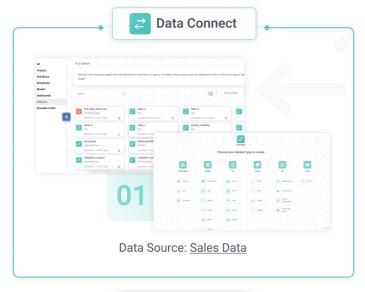
Forecasting order quantity as per different sales channel for next months using Auto-ARIMA, LSTM, etc.

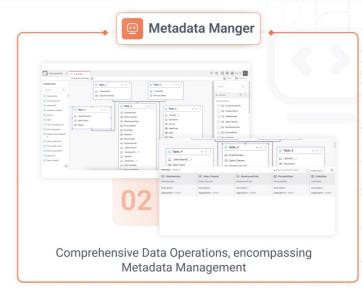
Forecasting and demand planning in FMCG industry contribute to increased sales and market share and improve inventory management.

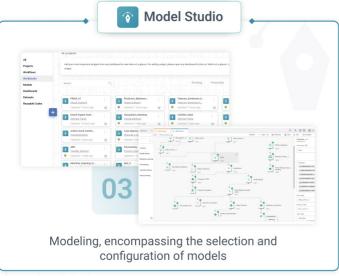
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Agile Data Science

Encapsulating best practices, tools and methods



ML Experts

ML Ops

Viz Ops Analyst



- · What is the goal?
- How can you leverage the data?
- · What do you want to predict?
- · How is data sampled?
- · Which data is relevant?
- Any data privacy issue?
- **Explore**
- Plot the data
- · Are there anomalies?
- · Are there patterns?
- Model
- · Build a model
- Fit the model
- · Validate the model
- Present
- · What did we learn?
- Do the results make sense?
- · Can we tell a story?
- Deploy
- · Where to Deploy?
- What is the Structure of Pipeline?
- How to **Optimise** and Scale?