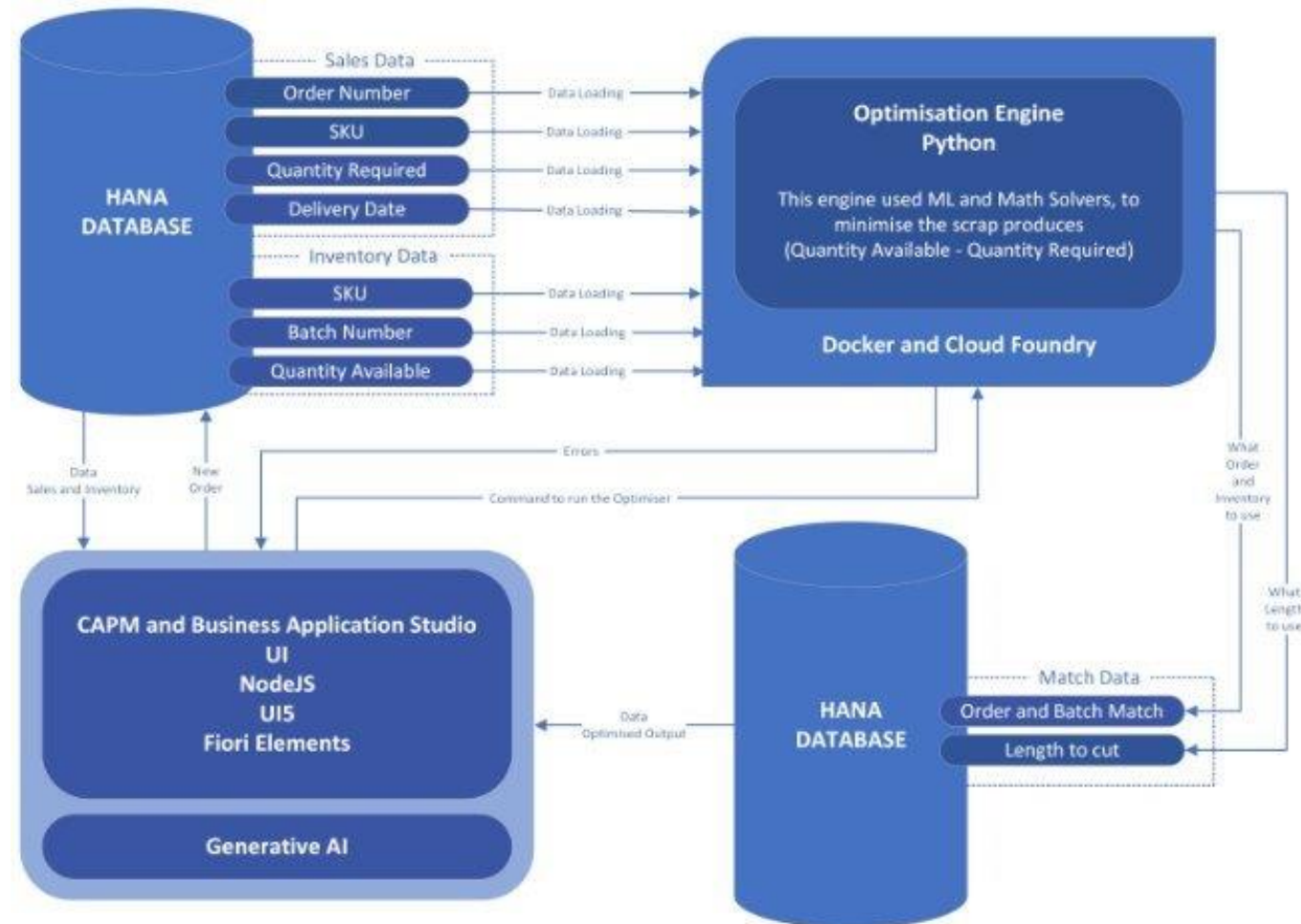


Crave InfoTech PrecisionOpt AI Use Cases

Waste and By-product Reduction (Resource Allocation and Optimisation) using Machine Learning and Gen AI



Waste and By-product Reduction (Resource Allocation and Optimisation) using Machine Learning and Gen AI



Current Input parameters

- Inventory specification
- Sales order specification
- Inventory availability
- Sales order requirement

Current Output parameters

- Match data for incoming sales order requirement and minimising waste and scarp.

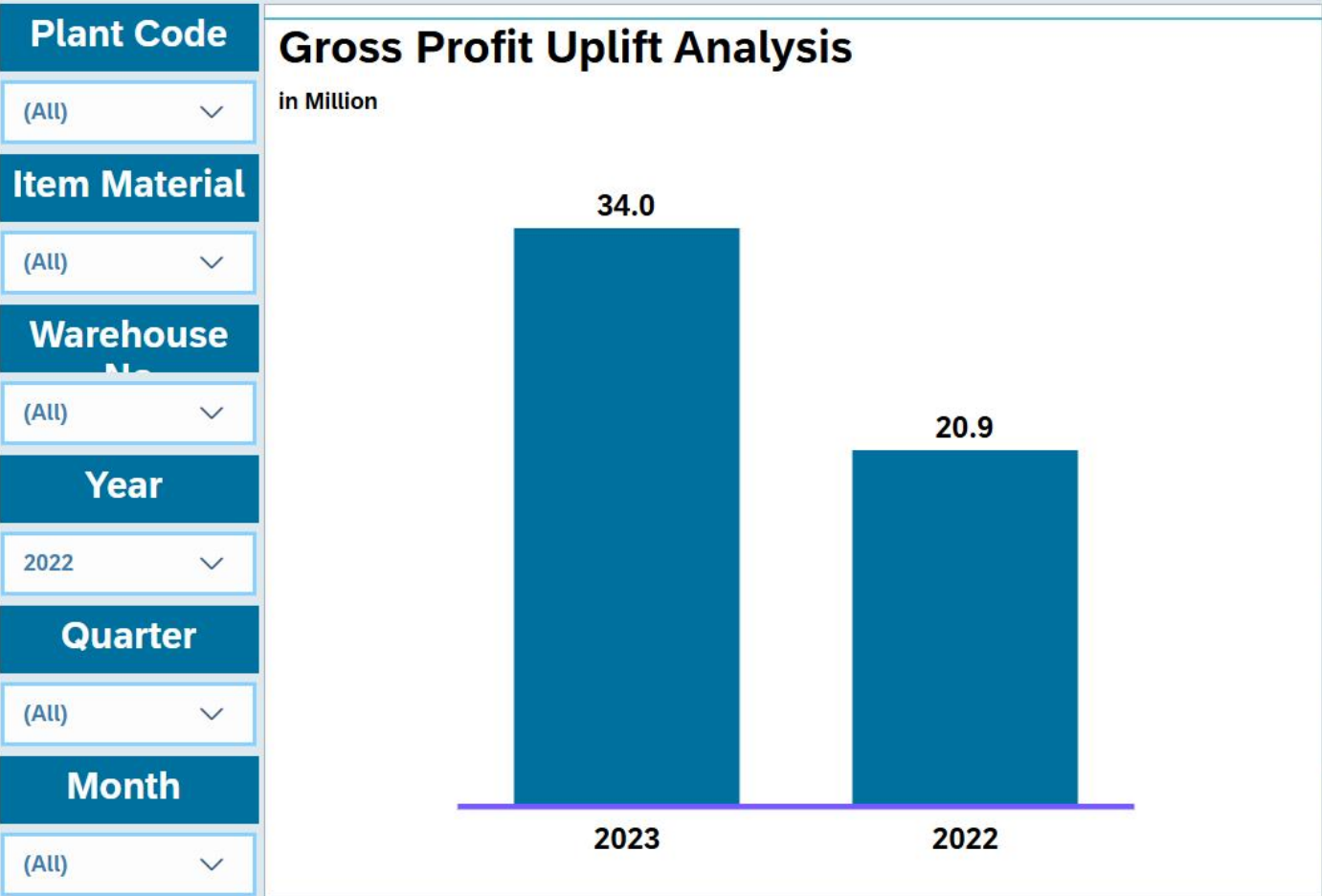
Potential/Additional Input parameters

- SKU details
- Additional resources that can be optimiser:
 - Space, volume, weight for freight, goods, transport etc
- Optimal power usage etc
- Optimal resource allocation
 - Raw material allocation
 - Synthetic Material composition optimisation

Waste and By-product Reduction (Resource Allocation and Optimisation) using Machine Learning and Gen AI



Waste and By-product Reduction (Resource Allocation and Optimisation) using Machine Learning and Gen AI



Sales and Demand Forecasting using ML

Business Challenges

Current forecasting models struggles with accuracy and adaptability, resulting in inefficient inventory management and higher operational costs.

Enhancing the model to integrate store-specific details, temporal dependencies, and diverse external factors will drive more informed business decisions and optimized resource allocation

Issue addressed are:

- Unreliable Forecasting Models
- Time-sensitive Market Dynamics
- Limited Data Utilization

Solution

- A machine learning model is trained using account for store-specific details, temporal dependencies, and external variables like sales, holidays, and economic indicators.
- The Model predicts sales for upcoming sales cycle
- Solution enhances forecasting accuracy, utilizes diverse data sources, and improve adaptability to market changes.
- The machine learning model is developed, compared with various algorithms, provides clear predictions, and ensures scalability and efficiency

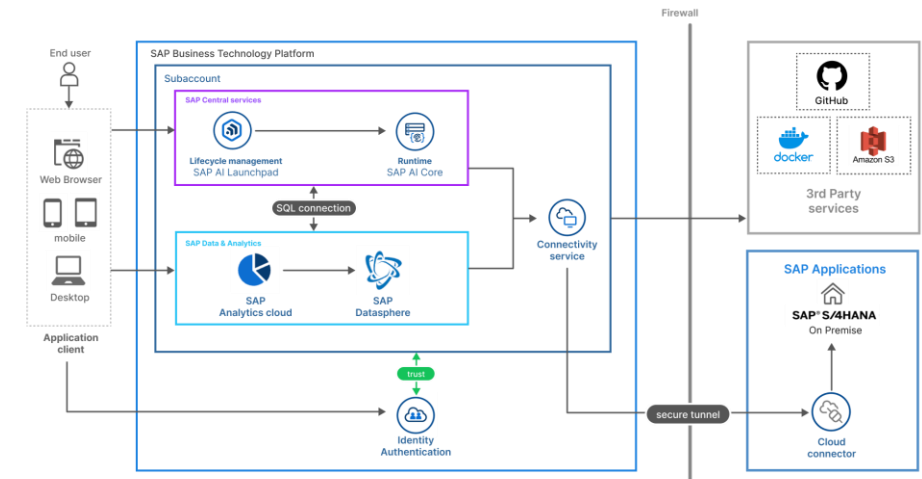
The model includes parameter like **sales, holidays, economic indicators etc.**

Industry

Retail, E-Commerce, Supply Chain, Sales, Consumer goods

Benefits of Solution

- Optimized Inventory Management
- Resource Allocation Efficiency
- Improved Profitability
- Enhanced Customer Satisfaction
- Strategic Decision Making
- Adaptation to Market Trends





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