

# Strategic Plans

## Objective:

Accurately predict hourly product stock levels using sales and sensor data.

## Approach:

1. **Data Utilization:** Utilize sales data for historical trends and sensor data for real-time warehouse monitoring.
2. **Data Quality Assurance:** Ensure data integrity, handle missing values, and identify outliers for a reliable dataset.
3. **Feature Engineering:** Extract relevant features for model building.
4. **Exploratory Data Analysis (EDA):** Analyze dataset patterns, correlations, and anomalies.
5. **Model Building:** Train predictive model using historical data.
6. **Predictive Analysis:** Use trained model for hourly stock level predictions.
7. **Inventory Optimization:** Develop a data-driven strategy aligned for efficient resource utilization and minimized wastage.
8. **Iterative Refinement:** Continuously refine model and strategies based on performance metrics for operational excellence in stock management.