Model Development Phase Template

Date	10-july-2024
Team ID	739969
Project Title	Walmart Sales Analysis For Retail Industry With Machine Learning
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Store	Unique identifier for each store.	Yes	Differentiates between the performance of individual stores.
Date	Date of the recorded sales data.	Yes	Helps track sales trends over time, including seasonality and special events.
Weekly_Sales	Total sales for the week.	Yes	The primary target variable for forecasting models, indicating store performance.
IsHoliday	Indicates whether the week included a significant holiday (binary feature: 1 for holiday weeks, 0 otherwise).	Yes	Important for understanding the impact of holidays on sales patterns.
Temperature	Average temperature for the week.	Yes	Weather conditions can affect consumer behaviour and store traffic.
Fuel_Price	Average fuel price for the week.	Yes	Changes in fuel prices can influence consumer spending power and willingness to travel.

CPI (Consumer Price Index)	Measures changes in the price level of a market basket of consumer goods and services.	Yes	Reflects inflation, affecting purchasing power and sales.
Unemployment	Unemployment rate in the region where the store is located.	Yes	Economic conditions, including employment, can impact consumer spending.
Markdowns	Promotions on the product	No	It contains more than 1 lakh rows as missing values,so doen't have much affect on the result.
Type	Category of the store (e.g., Supercenter, Neighborhood Market).	Yes	Different store types may have different customer bases and sales patterns
Size	Size of the store (usually in square feet).	Yes	Larger stores may have more inventory and sales capacity.