Model Development Phase Template

Date	11th July 2024
Team ID	SWTID1720435231
Project Title	Walmart Sales Analysis For Retail Industry With Machine Learning
Maximum Marks	5 Marks

Feature Selection Report

Each feature of the given dataset is given a brief description. This report will indicate whether it's selected or not, providing reasoning for the same. This process streamlines decision-making and enhances transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Store	The store number	Yes	The store number is required to predict the sales done in that particular store number
Dept	The department number	Yes	The department number is s required to predict the sales done in that particular department
Date	The date	Yes	The date plays an important factor in the sales done in a particular day
Weekly_Sales	sales for the given department in the given store	Yes	This is necessary to predict a weekly sales for another day

IsHoliday	whether the week is a special holiday week	Yes	The sales can either increase or decrease depending on whether it is a holiday.
Temperature	average temperature in the region	Yes	The sales in a particular place depends greatly on the temperature of the region.
Fuel_Price	cost of fuel in the region	Yes	The fuel price in a particular region acts as an important factor in sales.
CPI	Customer Price Index	Yes	CPI is important in predicting sales as it reflects consumer purchasing power and overall economic health.
Unemployment	The unemployment rate	Yes	The unemployment rate is important in sales prediction as it influences consumer spending and economic activity in a region.
MarkDown1-5	Anonymized data related to promotional markdowns that Walmart is running.	Yes	markdowns are important factors in sales prediction as they directly affect product pricing, demand, and inventory turnover.