Model Development Phase Template

Date	July 2024
Team ID	Team-740295
Project Title	Ecommerce Shipping Prediction using 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
ID	Unique identifier for each order	No	For predicting shipping ID is not required
. Warehouse_block	Categorization of warehouse locations (F,A,B,C,D).	Yes	Indicates the warehouse section, which can affect shipping times and efficiency.
Mode_of_Shipment	Shipping method chosen for the order (flight,ship,road)	Yes	Different modes (air, ship, road) have varying delivery times and reliability.
Customer_care_calls	Number of customer service calls made regarding the order.	Yes	High call volume may indicate potential issues with shipment or delivery.
Customer_rating	Rating provided by the customer for the order experience.	Yes	Reflects customer satisfaction and can correlate with shipping performance.
Cost_of_the_Product	Price of the product ordered.	Yes	Higher value products might prioritize faster or more secure shipping methods.
Prior_purchases	Number of previous purchases made by the customer.	Yes	Loyal customers might have their shipping prioritized or managed differently.
Product_importance	Importance level of the product ordered (low, medium, high).	Yes	High importance products might require faster shipping to meet customer expectations.

Gender	Gender of the customer (male or female).	Yes	Potentially useful for personalized marketing or understanding customer preferences in shipping.
Discount_offered	Amount of discount applied to the order.	Yes	Could affect shipping costs or delivery speed depending on the terms of the discount.
Weight_in_gms	Weight of the product in grams.	Yes	Heavier items may take longer to ship or require special handling.
Reached.on.Time_Y.N	Binary indicator (Yes/No) whether the order reached on time.	Yes	Directly indicates the success of previous shipping attempts, essential for prediction accuracy.