



Model Development Phase Template

Date	20 July 2024	
Team ID	SWTID1720110595	
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
Warehouse _block	The warehouse block where the product is stored.	Yes	Categorical feature that may influence the shipping time due to location.
Mode_of_S hipment	The mode of ships	Yes	Different shipment modes have varying delivery times, impacting the target variable.
Customer_c are_calls	Number of customer care calls made.	Yes	Indicates potential issues or concerns with the order, which could affect delivery time.
Customer_r ating	Rating given by the customer (1 to 5).	Yes	Customer satisfaction might correlate with shipping efficiency.





Cost_of_the _Product	Cost of the product in US Dollars.	Yes	Higher cost products might receive priority in shipping.
Prior_purch ases	Number of prior purchases by the customer.	Yes	Regular customers might have different shipping priorities or patterns.
Product_im portance	Importance of the product (Low, Medium, High).	Yes	High importance products might be expedited in shipping.
Gender	Gender of the customer.	Yes	Potentially influences shipping preferences and patterns.
Discount_of fered	Discount offered on the product.	Yes	High discounts might indicate promotions, which could affect shipping logistics.
Weight_in_ gms	Weight of the product in grams.	Yes	Heavier products might have different shipping requirements and times.
Total_Intera ction	Interaction between customer care calls and customer rating.	Yes	Derived feature combining customer interaction metrics, potentially insightful for delivery time.
Cost_per_W eight	Cost of the produc	Yes	Indicates value density, which might influence shipping method and priority.
Reached.on. Time_Y.N	Target variable indicating whether the product reached on time (1 = No, 0 = Yes).	Yes	Target variable for the prediction model.





ID	Unique identifier for each customer.	No	Not relevant for prediction, used only for identification purposes.