

Model Development Phase Template

Date	20 July ,2024
Team ID	SWTID1720108903
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 shipment	No	For predicting on-time delivery, an ID is not required.
Warehouse_block	Warehouse location identifier	Yes	Relevant for analyzing shipping efficiency across different blocks.
Mode of shipment	Mode of shipment	Yes	Important for understanding shipping methods and their impact on delivery times.

Customer_care_calls		Number of customer service calls	Yes	Indicates customer service interactions, which may affect customer satisfaction.
Customer_rating		Rating given by customers	Yes	Reflects customer satisfaction levels, potentially impacting future purchase decisions
Cost_of_the_Product		Cost associated with each product	Yes	Influences profit margins and financial analysis related to product sales.
Prior_purchases		Number of prior purchases	Yes	Indicates customer loyalty and purchasing history.
Product_importance		Importance level of the product	Yes	Helps prioritize shipping and inventory management based on product criticality.
Gender		Gender of the customer	Yes	Relevant for demographic

				analysis and customer segmentation.
Discount_offered		Discount offered on the product	Yes	Impacts pricing strategy and customer purchase behavior.
Weight_in_gms		Weight of the product in grams	Yes	Important for logistics and shipping cost calculations.
Reached.on.Time_Y.N		Binary indicator (1 or 0) for on-time delivery	Yes	Target variable for predictive modeling to assess shipping punctuality.