



Model Development Phase Template

Date	20 July ,2024
Team ID	SWTID1720519736
Project Title	Ecommerce Shipping Prediction UsingMachine Learning
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users willindicate 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)	Reasonin g
ID	Unique identifierfor each shipment	No	For predicting on-time delivery, an ID isnot required.
Warehous e _block	Warehou se location identifier	Yes	Relevant for analyzing shipping efficiency across different blocks.
Mode of shipme nt	Mode of shipment	Yes	Important for understanding shipping methods and their impact ondelivery times.





Customer_care_calls	Number of customer servicecalls	Yes	Indicates customer service interactions, which may affect customer satisfaction.
Customer_rating	Rating given bycustomers	Yes	Reflects customer satisfacti on levels, potentiall y impactin g future purchase decisions
Cost_of_the_Product	Cost associated witheach product	Yes	Influences profit marginsand financial analysis related to product sales.
Prior_purchases	Number of priorpurchases	Yes	Indicates customer loyalty and purchasi ng history.





Product_importance	Importance level ofthe product	Yes	Helps prioritize shipping and inventory manageme ntbased on product criticality.
Gender	Gender of the customer	Yes	Relevant for demograph ic





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