



Model Development Phase Template

Date	12 March 2024
Team ID	SWTID1720089323
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 record	No	It does not provide useful information for predicting delivery times. It is used solely for identification purposes.
Warehouse_block	Section of the warehouse where the product is stored	yes	Different sections may have different processing times and efficiencies affecting delivery times.
Mode_of_Shipment	Method used to ship the product	Yes	Different shipment methods have different speeds and reliability, influencing delivery times.
Customer_care_calls	Number of times the customer has called customer care	yes	Frequent calls may indicate issues with orders, potentially affecting delivery times.
Customer_rating	Customer's rating of the product or service	yes	While subjective, customer ratings might reflect overall service quality, indirectly affecting delivery.
Cost_of_the_Product	Cost of the product purchased	yes	Higher-value products might receive better handling or faster shipping services.

Prior_purchases	Number of purchases the customer has made prior to this one	yes	Repeat customers might receive priority service, affecting delivery times.
Product_importance	Importance of the product (e.g., low, medium, high)	yes	Higher importance products might be expedited, affecting delivery times.
Gender	Gender of the customer	yes	While generally not a direct factor, it can provide demographic insights that might correlate with delivery times.
Discount_offered	Discount percentage offered on the product	yes	Products with higher discounts might be prioritized differently in processing and shipping.
Weight_in_gms	Weight of the product in grams	yes	Heavier items might require more handling and different shipment methods, influencing delivery times.
Reached.on.Time_Y .N	Target variable indicating whether the product was delivered on time or not	yes	This is the target variable we aim to predict, so it is crucial for model training.