



## **Data Collection and Preprocessing Phase**

Date	09 July 2024
Team ID	SWTID1720084775
Project Title	Ecommerce Shipping Prediction Using Machine Learning
Maximum Marks	6 Marks

## **Data Exploration and Preprocessing**

Identifying data sources, assessing quality issues like missing values and duplicates, and implementing resolution plans to ensure accurate and reliable analysis.

Section	Description	Description		
	data.info()			
Data Overview	<pre><class #="" 'pandas.core.fra="" (total="" 0="" 1="" 1.0+="" 10="" 10999="" 11="" 12="" 2="" 3="" 4="" 5="" 6="" 7="" 8="" 9="" column="" columns="" cost_of_the_produc="" customer_care_call="" customer_rating="" data="" discount_offered="" dtypes:="" entri="" gender="" id="" int64(8),="" mb<="" memory="" mode_of_shipment="" object="" pre="" prior_purchases="" product_importance="" rangeindex:="" reached.on.time_y.="" usage:="" warehouse_block="" weight_in_gms=""></class></pre>	es, 0 to 10998 columns):     Non-Null Count      10999 non-null     10999 non-null	int64 object object int64 int64 int64 object object object int64	





	<pre>data.isnull().sum()</pre>	
	ID	0
	Warehouse_block	0
	Mode_of_Shipment	0
	Customer care calls	0
	Customer_rating	0
	Cost of the Product	0
	Prior_purchases	0
	Product_importance	0
	Gender	_
		0
	Discount_offered	0
	Weight_in_gms	0
	Reached.on.Time_Y.N dtype: int64	0
	data.describe()	
	ID Customer_care_calls Customer_rating Cost_of_the_Product Prior_purchases Discount_offered Wei	
		3634.016729 0.596691
Univariate Analysis	std 3175,28214 1.141490 1.413603 48,063272 1.522860 16,205527	
Univariate Analysis	min 1.00000 2.000000 1.000000 96.000000 2.000000 1.000000	1635.377251 0.490584 1001.000000 0.000000
Univariate Analysis	min         1.00000         2.000000         1.00000         96.00000         2.000000         1.00000           25%         2750.50000         3.000000         2.000000         169.00000         3.000000         4.000000	1635.377251 0.490584 1001.000000 0.000000 1839.500000 0.000000
Univariate Analysis	min         1.00000         2.000000         1.00000         96.00000         2.00000         1.00000         2.00000           25%         2750.50000         3.00000         2.000000         189.00000         3.00000         4.00000         5.00000         4.00000         7.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.00000         4.0000000         4.000000         4.000000         4.000000	1635.377251 0.490584 1001.000000 0.000000





























