



Data Collection and Preprocessing Phase

Date	5 July 2024
Team ID	SWTID1720082658
Project Title	Ecommerce Shipping Prediction Using Machine Learning
Maximum Marks	6 Marks

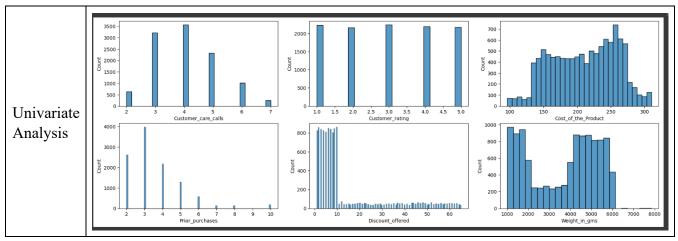
Data Exploration and Preprocessing Template

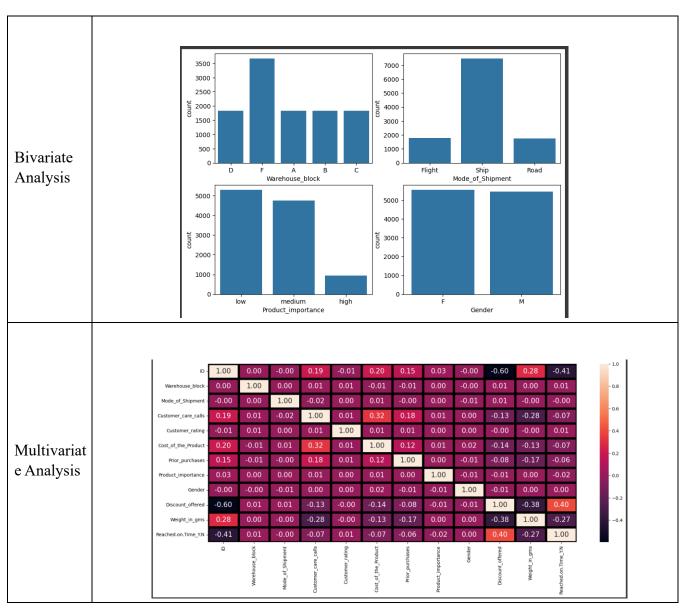
Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.

Section	Description								
	Dimensions: 10999 rows x 12 columns								
l		ID	Warehouse block	Mode of Shipment	Customer care calls	Customer_rating	Cost of the Product		
Data Overview	count	10999.00000	10999.000000	10999.000000	10999.000000	10999.000000	10999.000000		
	mean	5500.00000	2.333394	1.516865	4.054459	2.990545	210.196836		
	std	3175.28214	1.490726	0.756894	1.141490	1.413603	48.063272		
	min	1.00000	0.000000	0.000000	2.000000	1.000000	96.000000		
	25%	2750.50000	1.000000	1.000000	3.000000	2.000000	169.000000		
	50%	5500.00000	3.000000	2.000000	4.000000	3.000000	214.000000		
	75%	8249.50000	4.000000	2.000000	5.000000	4.000000	251.000000		
	max	10999.00000	4.000000	2.000000	7.000000	5.000000	310.000000		
	< t								



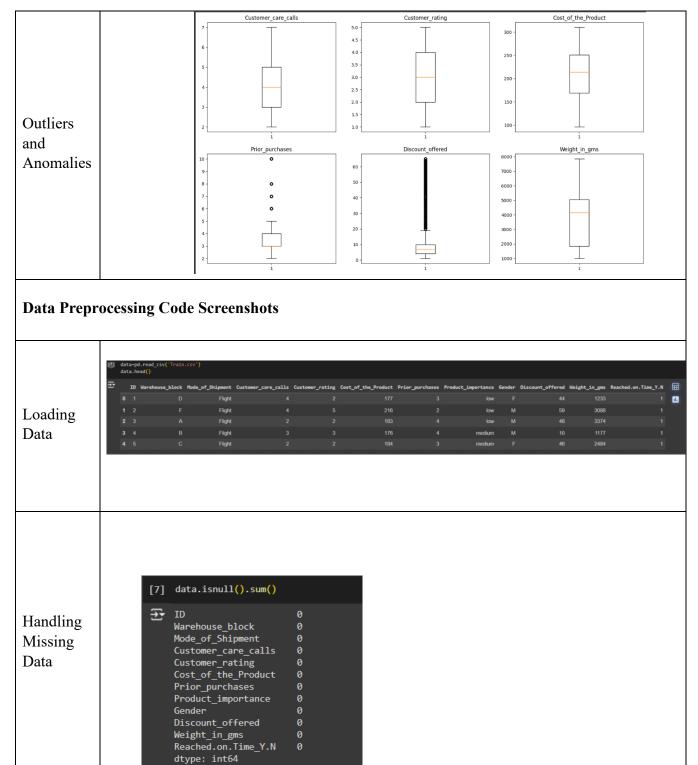






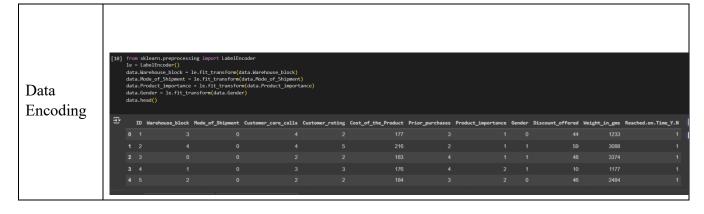












Data Transformation	<pre>[18] from sklearn.preprocessing import StandardScaler scale=StandardScaler() xnorm_train = scale.fit_transform(x_train) xnorm_test = scale.fit_transform(x_test) [19] from sklearn.preprocessing import MinMaxScaler norm=MinMaxScaler() x=norm.fit_transform(x) x</pre>				
Feature Engineering	Code is in the final code submitted.				
Save Processed Data	-				