



## **Data Collection and Preprocessing Phase**

Date	11 JULY 2024
Team ID	SWTID1720163281
Project Title	Ecommerce Shipping Prediction Using Machine Learning
Maximum Marks	6 Marks

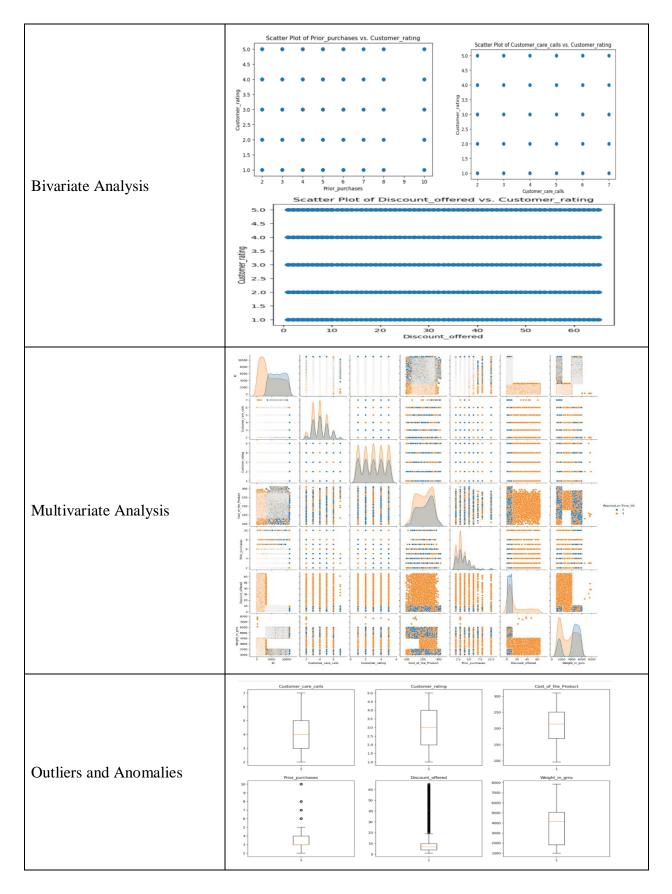
## **Data Exploration and Preprocessing Template**

Identifies data sources, assesses quality issues like missing values and duplicates, and implements resolution plans to ensure accurate and reliable analysis.

Section	Description
Data Overview	Count   1099.00000   1099.000
Univariate Analysis	1899, 000000   1899











Data Preprocessing Code Screenshots		
Loading Data	<pre>import pandas as pd df = pd.read_csv('/Users/shanmukhanandudu/Downloads/train (3).csv') df</pre>	
Handling Missing Data	df.isnull().sum()	
Data Transformation	# Encode categorical variables le = LabelEncoder() df['Warehouse_block'] = le.fit_transform(df['Warehouse_block']) df['Mode_of_Shipment'] = le.fit_transform(df['Mode_of_Shipment']) df['Product_importance'] = le.fit_transform(df['Product_importance']) df['Gender'] = le.fit_transform(df['Gender'])  # Scale/normalize features scaler = StandardScaler() columns_to_scale = ['Customer_care_calls', 'Customer_rating', 'Cost_of_the_Product', 'Prior_purchases', 'Discount_offered', 'Weight_in_gms'] df[columns_to_scale] = scaler.fit_transform(df[columns_to_scale])	
Feature Engineering	<pre>import pandas as pd  # create a sample dataframe data = {'priority': ['low', 'medium', 'high', 'low', 'medium',</pre>	
Save Processed Data	df.to_csv('my_dataset.csv', index=False)	



