



Data Collection and Preprocessing Phase

Date	09 July 2024	
Team ID	SWTID1720499933	
Project Title	Ecommerce Shipping Prediction Using Machine Learning	
Maximum Marks	6 Marks	

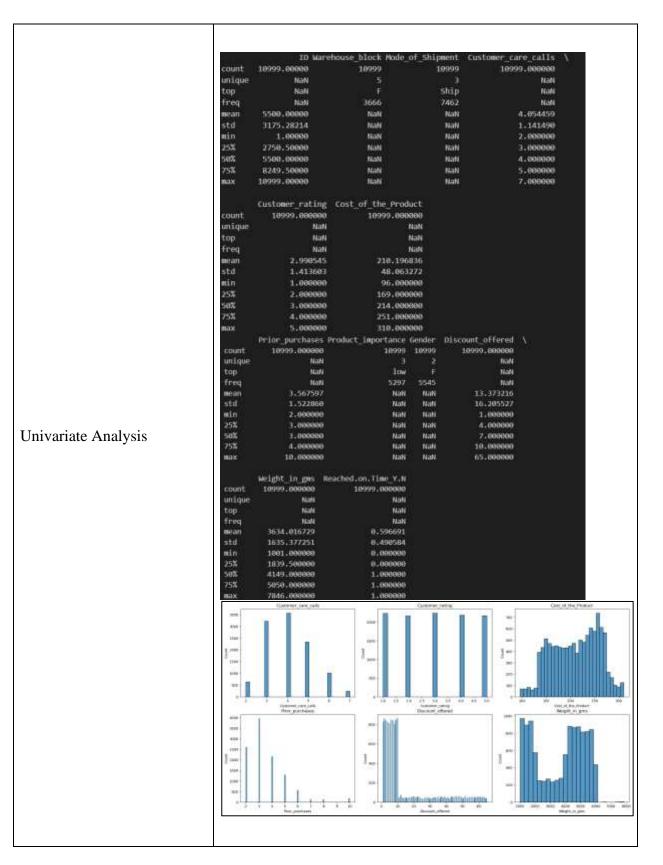
Data Exploration and Preprocessing Template

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	Dimensions: 10999 rows x 12 columns <class 'pandas.core.frame.dataframe'=""> RangeIndex: 10999 entries, 0 to 10998 Data columns (total 12 columns): # Column Non-Null Count Dtype</class>		

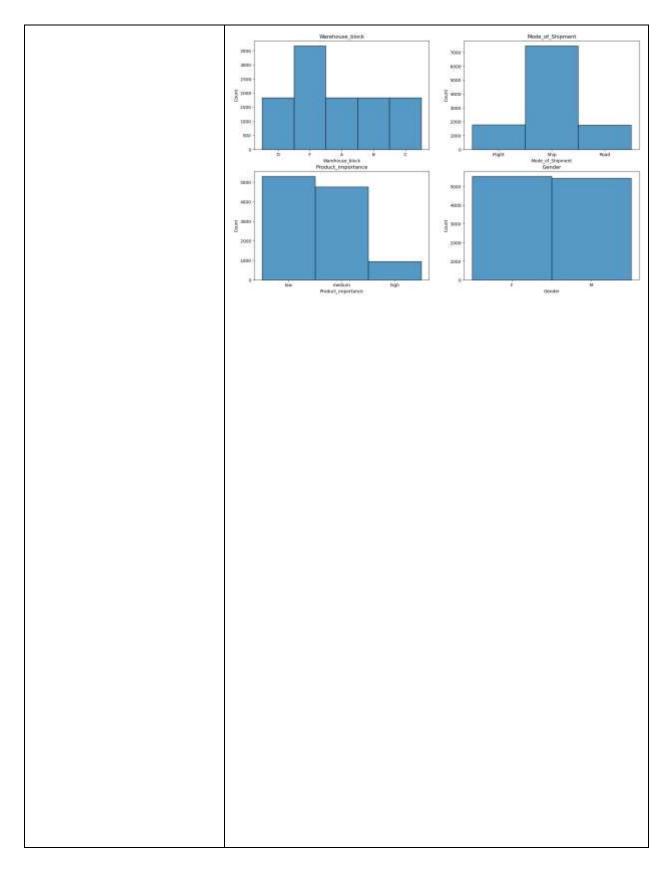






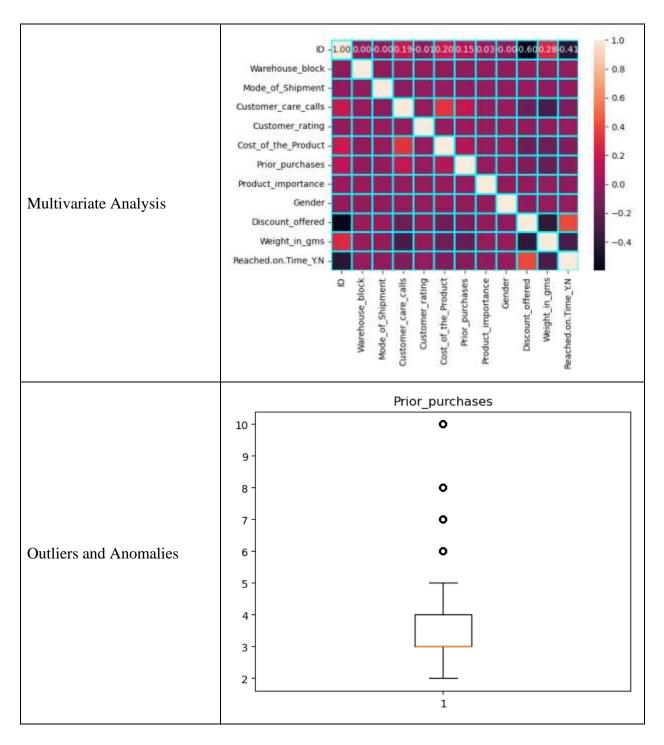






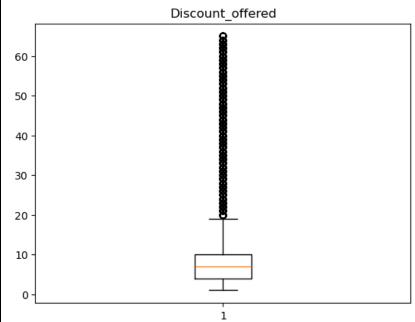












```
data2=data.copy()
def outlier removal(data column):
    q1=np.percentile(data_column,25)
    q3=np.percentile(data_column,75)
    iqr=q3-q1
    loc_cnt=0
    outlier cnt=0
    values=[]
    for val in data_column:
        if val>q3+(1.5*iqr) or val<q1-(1.5*iqr):
           outlier_cnt+=1
        values+=[val]
    loc_cnt+=1
    print("Outlier count=",outlier_cnt)
    plt.boxplot(values)
    plt.title(data_column.name)
    plt.show()
    return values
data2.Prior_purchases=outlier_removal(data2.Prior_purchases)
data2.Discount_offered=outlier_removal(data2.Discount_offered)
data2.head()
```





Data Preprocessing Code Screenshots			
Loading Data	<pre>data=pd.read_csv("Train.csv") data.head()</pre>		
Handling Missing Data	data.isnull().sum(✓ 0.0s ID Warehouse_block Mode_of_Shipment Customer_care_calls Customer_rating Cost_of_the_Product Prior_purchases Product_importance Gender Discount_offered Weight_in_gms Reached.on.Time_Y.N dtype: int64		
Data Transformation	Contact that a probably believe that yellow a late Leader two lates and and contact the probably and probably and probably and a probably a probably and a probably anative and a probably and a probably and a probably and a probably		
Save Processed Data	data2=data.copy()		