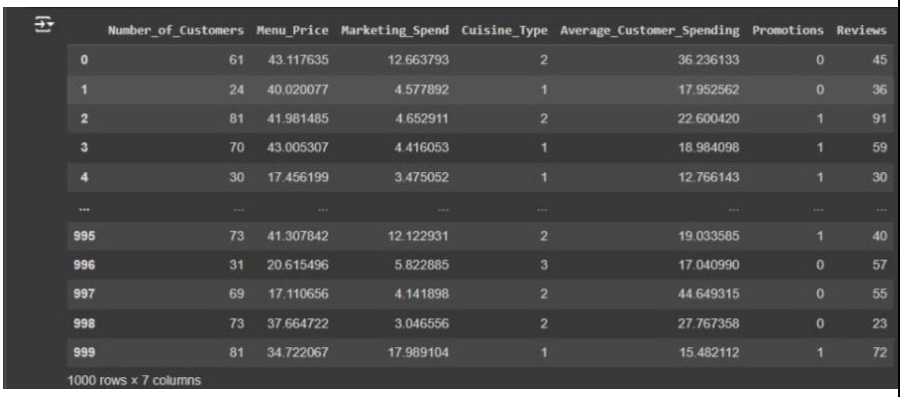
Data Collection and Preprocessing Phase

Date	15 July 2024
Team ID	739655
Project Title	Forecasting Feasts: A Culinary journey into Restaurant Revenue Prediction
Maximum Marks	6 Marks

Data Exploration and Preprocessing Template

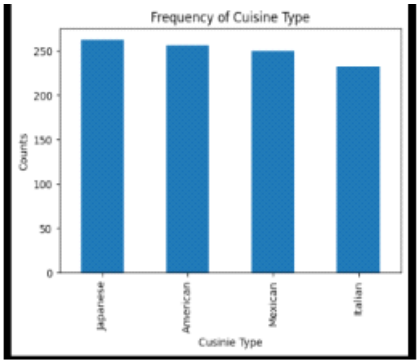
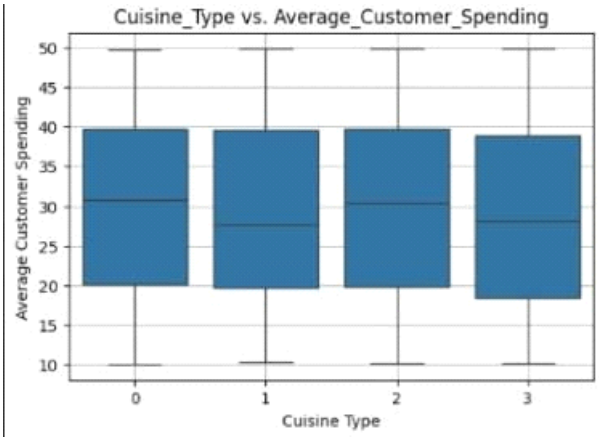
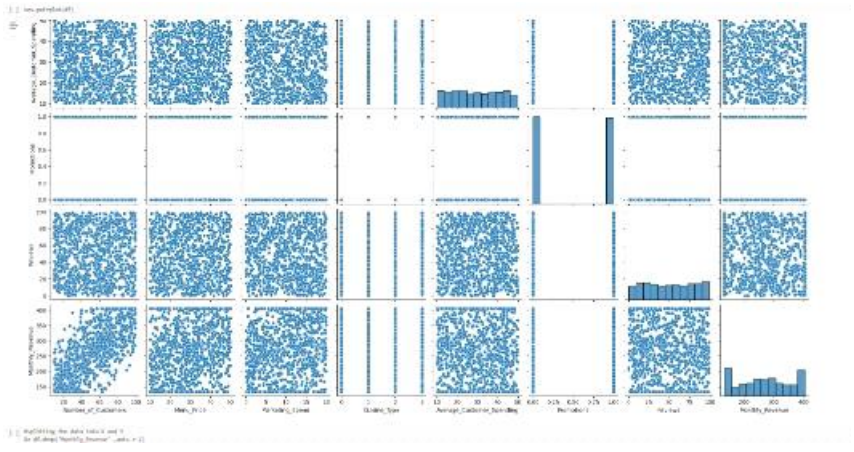
Data exploration and preprocessing involve a series of steps to understand the data and prepare it for analysis. This typically starts with loading the data and examining its structure, such as the number of rows and columns, data types, and summary statistics. Next, data cleaning is performed to handle missing values, remove duplicates, and correct errors. Feature engineering may be conducted to create new variables or transform existing ones. Finally, data is scaled or normalized if necessary, and categorical variables are encoded. Throughout this process, data visualization is often used to identify patterns and outliers.

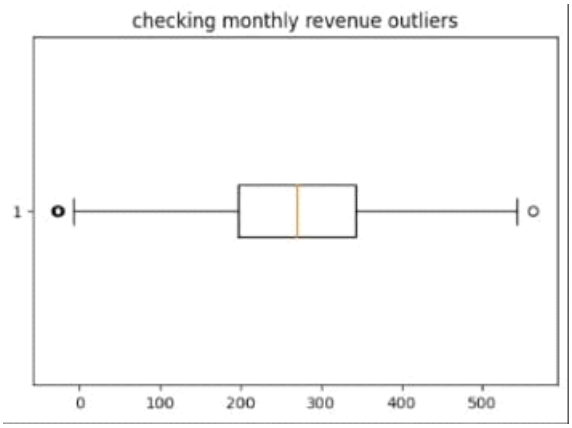
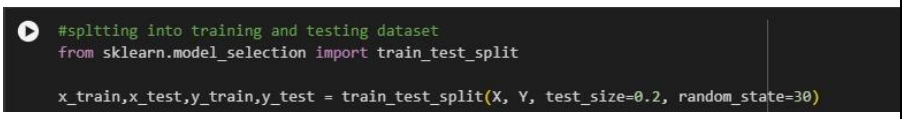
Section	Description
Data Overview	Dimension: 1000 rows x 7 columns Descrptive statistics:



	Number_of_Customers	Menu_Price	Marketing_Spend	Cuisine_Type	Average_Customer_Spending	Promotions	Reviews
0	61	43.117635	12.663793	2	36.236133	0	45
1	24	40.020077	4.577892	1	17.952562	0	36
2	81	41.981485	4.652911	2	22.600420	1	91
3	70	43.005307	4.416053	1	18.984098	1	59
4	30	17.456199	3.475052	1	12.766143	1	30
...	...	...	...	...	...	...	...
995	73	41.307842	12.122931	2	19.033585	1	40
996	31	20.615496	5.822885	3	17.040990	0	57
997	69	17.110656	4.141898	2	44.649315	0	55
998	73	37.664722	3.046556	2	27.767358	0	23
999	81	34.722067	17.989104	1	15.482112	1	72

1000 rows × 7 columns

Univariate Analysis	
Bivariate Analysis	
Multivariate Analysis	

Outliers and Anomalies	
Data Preprocessing Code Screenshots	
Loading Data	
Handling Missing Data	  
Data Transformation	
Feature Engineering	-