|  |  |
| --- | --- |
| **Section** | **Description** |
| Data Overview | Dimension:  32574 rows × 10 columns  Descriptive statistics: |
| Univariate Analysis | It is the simplest form of data analysis where the data being analyzed contains only o |

**Data Collection and Preprocessing Phase**

|  |  |
| --- | --- |
| Date | 4th July 2024 |
| Team ID | 739958 |
| Project Title | Food demand forecasting for food delivery company |
| Maximum Marks | 6 Marks |

**Data Exploration and Preprocessing Report**

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.

|  |  |
| --- | --- |
|  |  |
| Bivariate Analysis |  |
| Multivariate Analysis |  |

|  |  |
| --- | --- |
| Outliers and Anomalies | - |
| **Data Preprocessing Code Screenshots** | |
| Loading Data |  |
| Handling Missing Data |  |
| Data Transformation |  |
| Feature Engineering | features = columns.drop(['num\_orders'])  trainfinal3 = trainfinal[features]  x = trainfinal3.values  y = trainfinal['num\_orders'].values |
| Save Processed Data | import pickle  pickle.dump(DT,open('fdemand.pkl','wb'))  testfinal = pd.merge(test, meal\_info, on="meal\_id",how="outer")  testfinal = pd.merge(testfinal, center\_info, on="center\_id",how="outer")  testfinal = testfinal.drop(['center\_id','meal\_id'], axis=1) |