



Data Collection and Preprocessing Phase

	1 8
Date	10 July 2024
Team ID	739943
Project Title	Frappe Activity:mobile Phone Activity classification
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

Section	Descr	iption										
	Dimension: 923 rows × 49 columns											
	Descr	iptive sta	atistics:									
	count mean std min 25% 50% 75%	96203.000000 189.646944 156.458370 0.000000 74.000000 153.000000 271.000000	96203.000000 386.754207 683.779627 0.000000 21.000000 77.000000 397.000000	ent 96203.000000 81.330894 395.414980 1.000000 2.000000 8.000000 36.000000	daytime 96203.000000 2.165317 1.825046 0.000000 1.000000 2.000000 3.000000	weekday 96203.000000 2.885627 2.009485 0.000000 1.000000 3.000000 5.000000	0.659792 0.473781 0.000000 0.000000 1.000000	homework 96203.000000 0.885565 0.447594 0.000000 1.000000 1.000000	cost 96203.000000 0.050872 0.219737 0.000000 0.000000 0.000000 0.000000	3.432835 3.380435 0.000000 0.000000 2.000000 7.000000	city 96203.000000 333.966176 359.977130 0.000000 0.000000 327.000000 649.000000	96203.000000 1800.068990 1041.000073 0.000000 1037.000000 1489.000000 2960.000000
Data Overview	max	956.000000	4081.000000	28752.000000	6.000000	6.000000	1.000000	2.000000	1.000000	8.000000	1087.000000	3508.000000
Univariate Analysis												





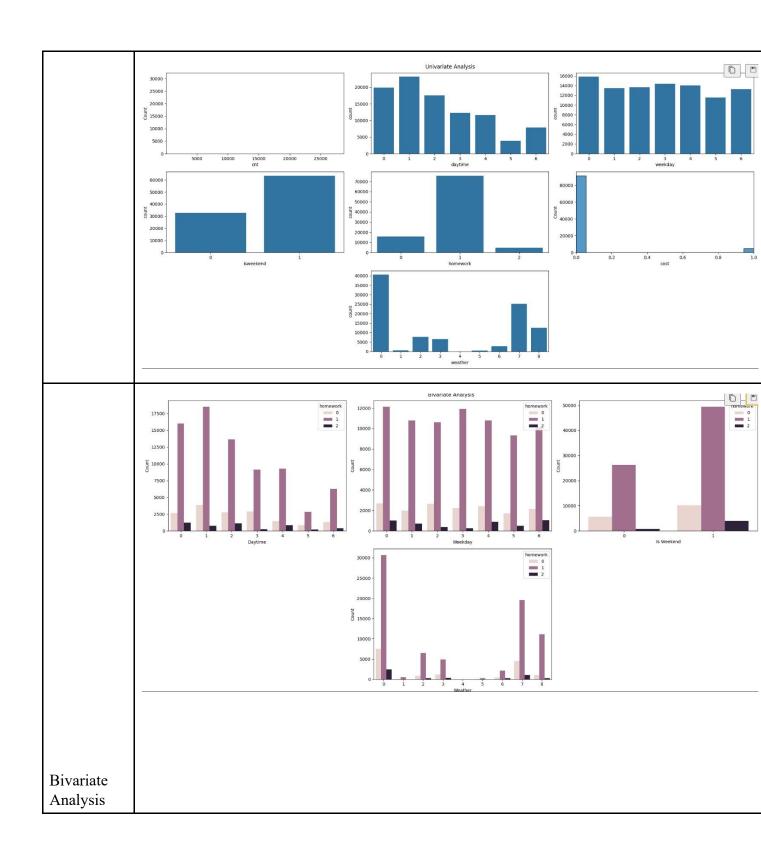
address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.















Outliers and	
Anomalies	-



Missing Data



Data Preprocessing Code Screenshots df=df.merge(meta_app,on= 'item') df.head() daytime weekday isweekend homework cost weather country city name weekend unknown free sunny United States 0 Any.DO To-do & Tasks List weekend unknown free cloudy Spain Yahoo! workday cloudy Spain Compass PRO workday thursday unknown free unknown United States Instagram workday 4 428 night thursday home free sunny Switzerland Shopping List Loading Data df.isna().sum() user 0 item 0 cnt 0 daytime 0 weekday 0 isweekend 0 homework 0 cost 0 weather 0 country 0 city 0 name 0 Handling dtype: int64





```
print(df['name'])
                             260
                            3217
                            698
                            1489
                            2523
                   96198
                            260
                   96199
                            1037
                   96200
                            1994
                   96201
                           1307
                   96202
                            2429
                   Name: name, Length: 96203, dtype: int32
Data
Transformation
```





Feature Engineering	Attached the codes in final submission.
Save Processed Data	-