Zomato data analysis

```
[32]: # Importing necessary python Libraries

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
[33]: # Creating dataframe
      dataframe=pd.read_csv("Zomato data .csv")
      print(dataframe.head())
                        name online_order book_table    rate votes \
                                   Yes
                                             Yes 4.1/5
      1
               Spice Elephant
                                    Yes
                                               No 4.1/5
                                                            787
      2 San Churro Cafe
3 Addhuri Udupi Bhojana
                                   Yes
No
                                               No 3.8/5
                                                            918
                                               No 3.7/5
                                                            88
                                    No
                Grand Village
                                              No 3.8/5 166
         approx_cost(for two people) listed_in(type)
      0
                               800
                               800
                                           Buffet
      1
```

Buffet

Buffet

Buffet

800

300

600

```
[34]:
    dataframe=pd.read_csv("Zomato data .csv")
    dataframe
```

[34]:		name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(type)
	0	Jalsa	Yes	Yes	4.1/5	775	800	Buffet
	1	Spice Elephant	Yes	No	4.1/5	787	800	Buffet
	2	San Churro Cafe	Yes	No	3.8/5	918	800	Buffet
	3	Addhuri Udupi Bhojana	No	No	3.7/5	88	300	Buffet
	4	Grand Village	No	No	3.8/5	166	600	Buffet
	143	Melting Melodies	No	No	3.3/5	0	100	Dining
	144	New Indraprasta	No	No	3.3/5	0	150	Dining
	145	Anna Kuteera	Yes	No	4.0/5	771	450	Dining
	146	Darbar	No	No	3.0/5	98	800	Dining
	147	Vijayalakshmi	Yes	No	3.9/5	47	200	Dining

148 rows × 7 columns

2

3

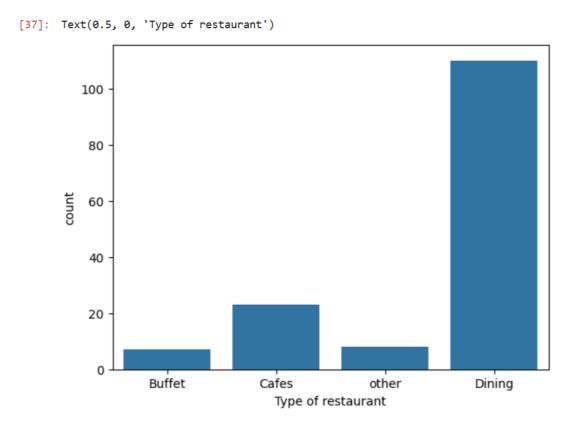
Converting the data type of the "rate" column to float and removing the denominator

```
•[35]: def handleRate(value):
                                                                                 个 ↓ 占 早
                                                                             ⊕
                                                                                                 value=str(value).split('/')
           value=value[0];
           return float(value)
       dataframe['rate']=dataframe['rate'].apply(handleRate)
       print(dataframe.head())
                          name online_order book_table rate votes \
       0
                         Jalsa
                                     Yes
                                                Yes 4.1
                                                              775
                Spice Elephant
       1
                                       Yes
                                                  No 4.1
                                                              787
       2
               San Churro Cafe
                                       Yes
                                                  No 3.8
                                                              918
       3 Addhuri Udupi Bhojana
                                        No
                                                  No 3.7
                                                               88
                 Grand Village
                                       No
                                                  No 3.8
                                                              166
          approx_cost(for two people) listed_in(type)
       0
                                 800
       1
                                 800
                                             Buffet
       2
                                 800
                                             Buffet
       3
                                             Buffet
                                 300
       4
                                 600
                                             Buffet
```

#Dataframe summary

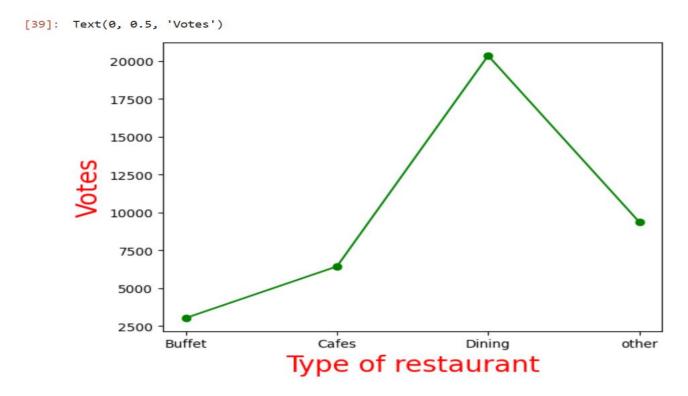
```
•[36]: dataframe.info()
       <class 'pandas.core.frame.DataFrame'>
       RangeIndex: 148 entries, 0 to 147
       Data columns (total 7 columns):
          Column
                                      Non-Null Count Dtype
           -----
                                      -----
        0
          name
                                      148 non-null
                                                     object
        1
          online_order
                                      148 non-null object
        2
          book_table
                                      148 non-null object
        3
          rate
                                      148 non-null
                                                    float64
        4
          votes
                                      148 non-null int64
        5
           approx_cost(for two people) 148 non-null
                                                     int64
           listed in(type)
                                      148 non-null
                                                     object
       dtypes: float64(1), int64(2), object(4)
       memory usage: 8.2+ KB
```

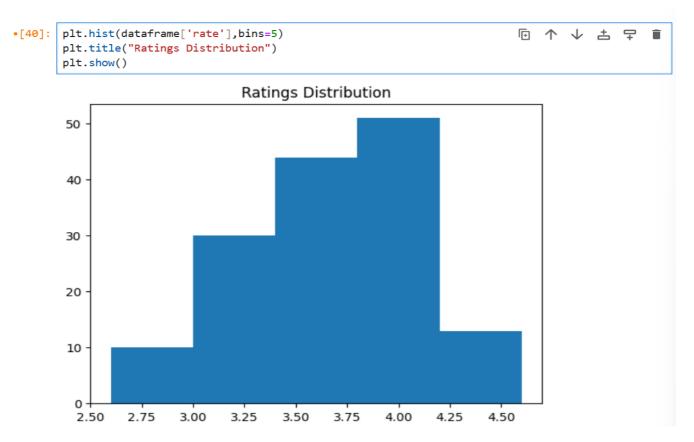
Type of restaurant



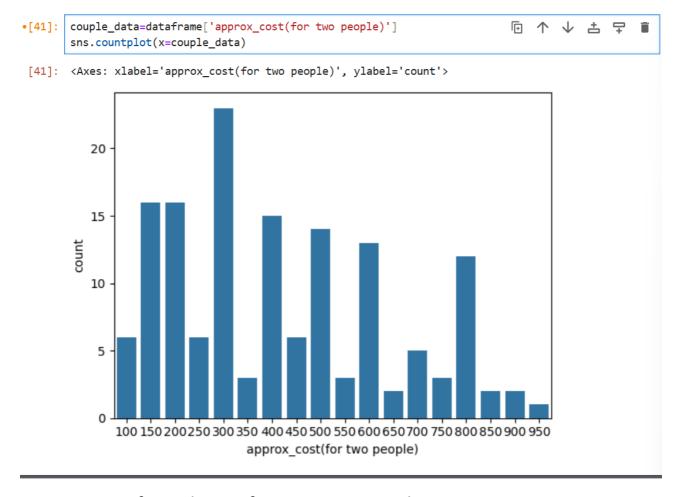
CONCLUSION: - Most of the restaurants fall under Dining category

Ratings of the restaurants

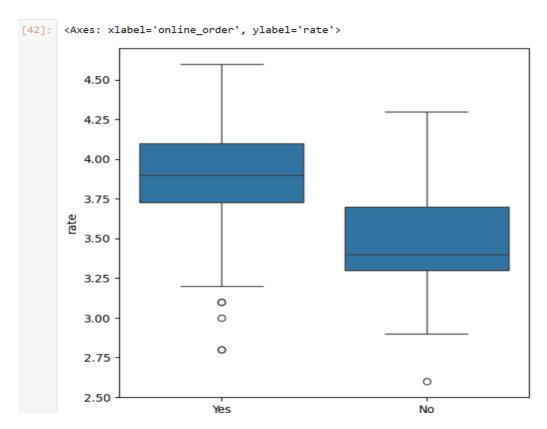




Majority of the restaurants received ratings ranging 3.5 to 4



Majority of couples prefer restaurants with approx. cost 300 rupees.



Offline orders received lower ratings in comparison to online orders.



CONCLUSION: Dining restaurants primarily accept offline orders, whereas cafes primarily receive online orders. This suggests that clients prefer to place orders in person at restaurants, but prefer online ordering at cafes.

By :- Ritik Sachan