## Zomzto Data Analysis Project

#### Step - 1 (Importing Libraries)

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

## Step - 2 (Creat The Data Frame)

```
In [5]: dataframe = pd.read_csv("Zomato data .csv")
       print(dataframe)
                           name online_order book_table rate votes \
      0
                                         Yes
                                                   Yes 4.1/5
                                                                775
                           Jalsa
      1
                  Spice Elephant
                                         Yes
                                                    No 4.1/5
                                                                787
                 San Churro Cafe
                                        Yes
                                                    No 3.8/5
                                                                918
           Addhuri Udupi Bhojana
                                                    No 3.7/5
                                                                 88
                   Grand Village
                                         No
                                                    No 3.8/5
                                                                166
                Melting Melodies
                                                    No 3.3/5
      143
                                         No
                                                                  0
      144
                 New Indraprasta
                                         No
                                                    No 3.3/5
                                                                  0
      145
                    Anna Kuteera
                                         Yes
                                                    No 4.0/5
                                                                771
      146
                         Darbar
                                         No
                                                    No 3.0/5
                                                                 98
      147
                  Vijayalakshmi
                                         Yes
                                                    No 3.9/5
                                                                  47
           approx_cost(for two people) listed_in(type)
      0
                                  800
                                              Buffet
                                              Buffet
      1
                                  800
                                              Buffet
                                  800
                                  300
                                              Buffet
      3
                                  600
                                              Buffet
      143
                                  100
                                              Dining
      144
                                  150
                                              Dining
      145
                                  450
                                              Dining
      146
                                  800
                                              Dining
      147
                                  200
                                              Dining
      [148 rows x 7 columns]
```

In [6]: dataframe Out[6]: name online\_order book\_table rate votes approx\_cost(for two people) listed\_in(type) 0 Jalsa Yes 4.1/5 775 800 **Buffet** Spice Elephant Yes No 4.1/5 787 800 Buffet 800 San Churro Cafe Yes No 3.8/5 **Buffet** 300 3 Addhuri Udupi Bhojana No 3.7/5 Buffet No Grand Village No 3.8/5 600 **Buffet** 143 Melting Melodies No 3.3/5 100 Dining 150 144 New Indraprasta No No 3.3/5 Dining 450 145 Anna Kuteera No 4.0/5 771 Dining

No 3.0/5

No 3.9/5

98

148 rows × 7 columns

146

147

# Step - 3 (Data Cleaning)

Darbar

Yes

Vijayalakshmi

```
In [7]: #convert of data type of column - rate
In [11]: def handleRate(value):
             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
                                        Yes
                                                  Yes 4.1
                                                              775
                 Spice Elephant
                                        Yes
                                                   No 4.1
                                                               787
        2
                San Churro Cafe
                                        Yes
                                                   No 3.8
                                                               918
                                                   No 3.7
        3 Addhuri Udupi Bhojana
                                        No
                                                               88
                                                   No 3.8
                  Grand Village
                                        No
                                                              166
          approx_cost(for two people) listed_in(type)
                                 800
                                              Buffet
                                 800
                                              Buffet
                                 800
                                              Buffet
        2
        3
                                 300
                                              Buffet
                                 600
                                              Buffet
In [12]: #checking missing values
In [13]: dataframe.info()
```

800

200

Dining

Dining

<class 'pandas.core.frame.DataFrame'> RangeIndex: 148 entries, 0 to 147 Data columns (total 7 columns): Non-Null Count Dtype # Column -----0 name 148 non-null object online\_order 148 non-null object 2 book\_table 148 non-null object 148 non-null float64 3 rate 4 148 non-null int64 approx\_cost(for two people) 148 non-null int64 6 listed\_in(type) 148 non-null object dtypes: float64(1), int64(2), object(4)

listed\_in(type)
dtype: int64

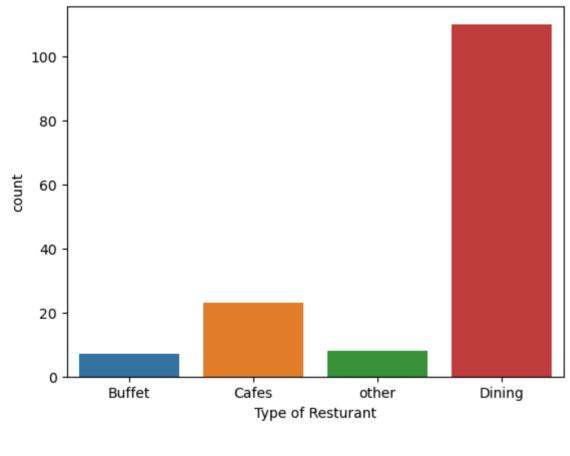
memory usage: 8.2+ KB

# Type of Resturant

```
In [15]: dataframe.head()
Out[15]:
                            name online_order book_table rate votes approx_cost(for two people) listed_in(type)
          0
                            Jalsa
                                         Yes
                                                    Yes 4.1 775
                                                                                        800
                                                                                                   Buffet
                    Spice Elephant
                                                     No 4.1
                                                                                        800
                                                                                                   Buffet
                  San Churro Cafe
                                                              918
                                                                                        800
                                                                                                   Buffet
                                         Yes
                                                     No 3.8
          3 Addhuri Udupi Bhojana
                                                                                                   Buffet
                                                     No 3.7
                     Grand Village
                                                              166
                                                                                        600
                                                                                                   Buffet
                                          No
                                                     No 3.8
```

In [17]: sns.countplot(x=dataframe["listed\_in(type)"])
 plt.xlabel("Type of Resturant")

Out[17]: Text(0.5, 0, 'Type of Resturant')



# Conclusion - Majarity of the resturant falls in Dining category

]:	dataf	rame.head()	e.head()					
[19]:		name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(type
	0	Jalsa	Yes	Yes	4.1	775	800	Buff
	1	Spice Elephant	Yes	No	4.1	787	800	Buffe
	2	San Churro Cafe	Yes	No	3.8	918	800	Buff
	3 Add	dhuri Udupi Bhojana	No	No	3.7	88	300	Buffe
	4	Grand Village	No	No	3.8	166	600	Buff
[23]:								

result = pd.DataFrame({"votes":grouped\_data})
plt.plot(result, c="green", marker="o")
plt.xlabel("Typer of resturant", c="red", size=20)
plt.ylabel("Votes", c="red", size=20)

Out[23]: Text(0, 0.5, 'Votes')

Out[23]: Text(0, 0.5, 'Votes')

20000

17500

10000

7500

Suffet

Cafes

Dining

Other

Typer of resturant