

## ✓ Zomato Data Analysis Using Python

```
1 import pandas as pd
2 import numpy as np
3 import matplotlib.pyplot as plt
4 import seaborn as sns
```

```
1 dataframe = pd.read_csv("Zomato data .csv")
2 print(dataframe.head())
```

```
↗
0      name online_order book_table  rate  votes \
1      Jalsa           Yes         Yes  4.1/5   775
2  Spice Elephant           Yes         No  4.1/5   787
3  San Churro Cafe           Yes         No  3.8/5   918
4  Addhuri Udupi Bhojana           No  3.7/5    88
5  Grand Village           No         No  3.8/5   166
```

```
approx_cost(for two people) listed_in(type)
0      800      Buffet
1      800      Buffet
2      800      Buffet
3      300      Buffet
4      600      Buffet
```

```
1 def handleRate(value):
2     value=str(value).split('/')
3     value=value[0];
4     return float(value)
5
6 dataframe['rate']=dataframe['rate'].apply(handleRate)
7 print(dataframe.head())
```

```
↗
0      name online_order book_table  rate  votes \
1      Jalsa           Yes         Yes  4.1   775
2  Spice Elephant           Yes         No  4.1   787
3  San Churro Cafe           Yes         No  3.8   918
4  Addhuri Udupi Bhojana           No         No  3.7    88
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```

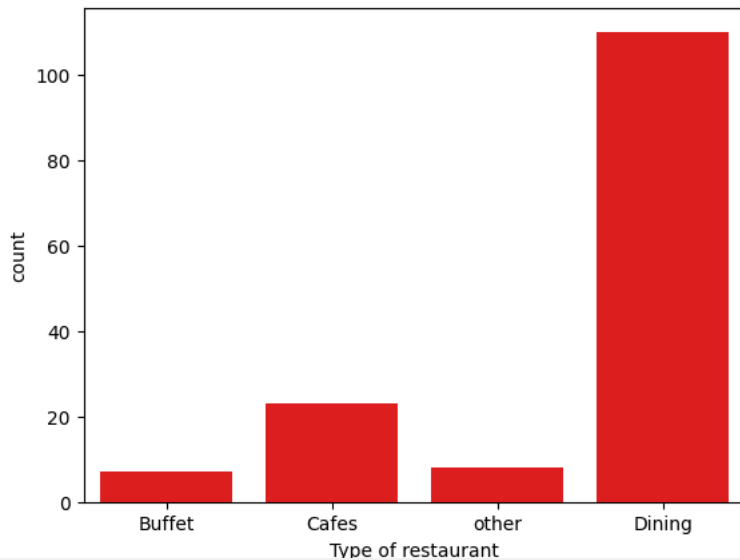
```
approx_cost(for two people) listed_in(type)
0      800      Buffet
1      800      Buffet
2      800      Buffet
3      300      Buffet
4      600      Buffet
```

```
1 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
6   listed_in(type)                     148 non-null    object
dtypes: float64(1), int64(2), object(4)
memory usage: 8.2+ KB
```

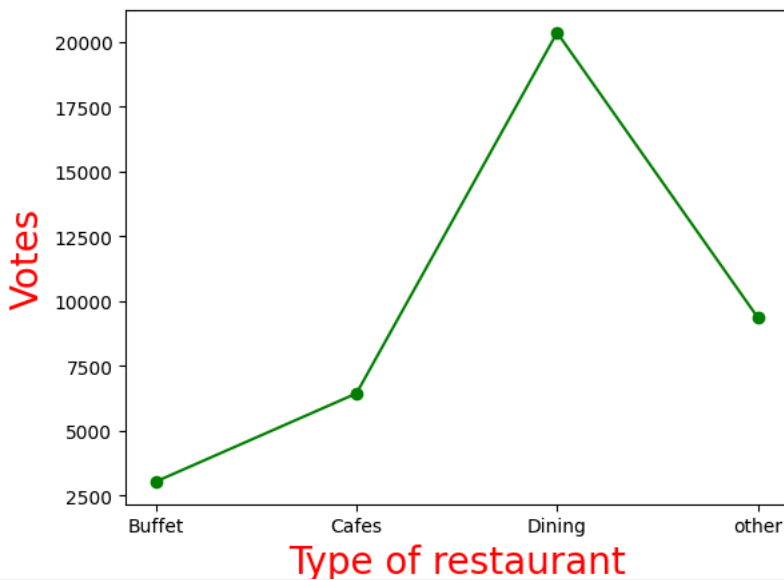
```
1 sns.countplot(x=dataframe['listed_in(type)'], color='red')
2 plt.xlabel("Type of restaurant")
3
```

```
Text(0.5, 0, 'Type of restaurant')
```



```
1 grouped_data = dataframe.groupby('listed_in(type)')['votes'].sum()
2 result = pd.DataFrame({'votes': grouped_data})
3 plt.plot(result, c="green", marker="o")
4 plt.xlabel("Type of restaurant", c="red", size=20)
5 plt.ylabel("Votes", c="red", size=20)
```


```
Text(0, 0.5, 'Votes')
```

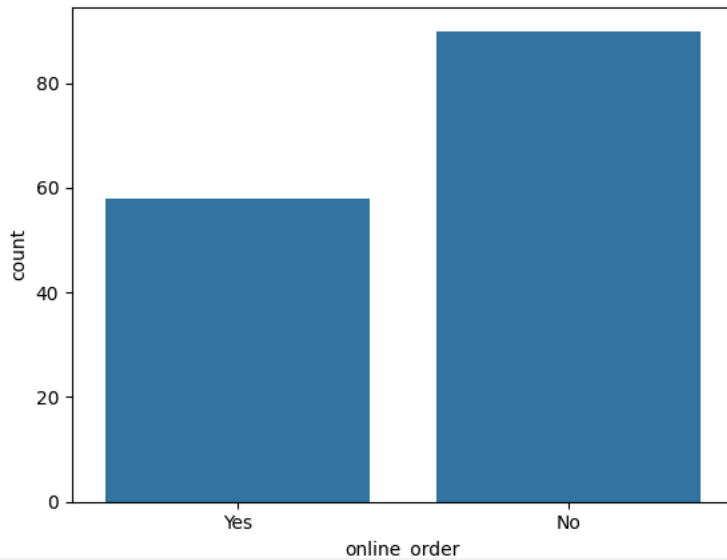


```
1 max_votes = dataframe['votes'].max()
2 restaurant_with_max_votes = dataframe.loc[dataframe['votes'] == max_votes, 'name']
3
4 print("Restaurant(s) with the maximum votes:")
5 print(restaurant_with_max_votes)
```

```
Restaurant(s) with the maximum votes:
38    Empire Restaurant
Name: name, dtype: object
```

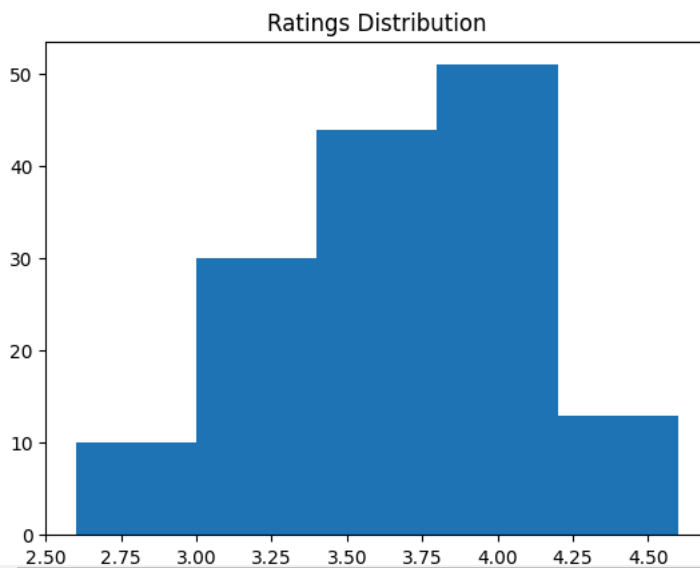
```
1 sns.countplot(x=dataframe['online_order'])
```

 <Axes: xlabel='online\_order', ylabel='count'>



```
1 plt.hist(dataframe['rate'],bins=5)
2 plt.title("Ratings Distribution")
3 plt.show()
4
```





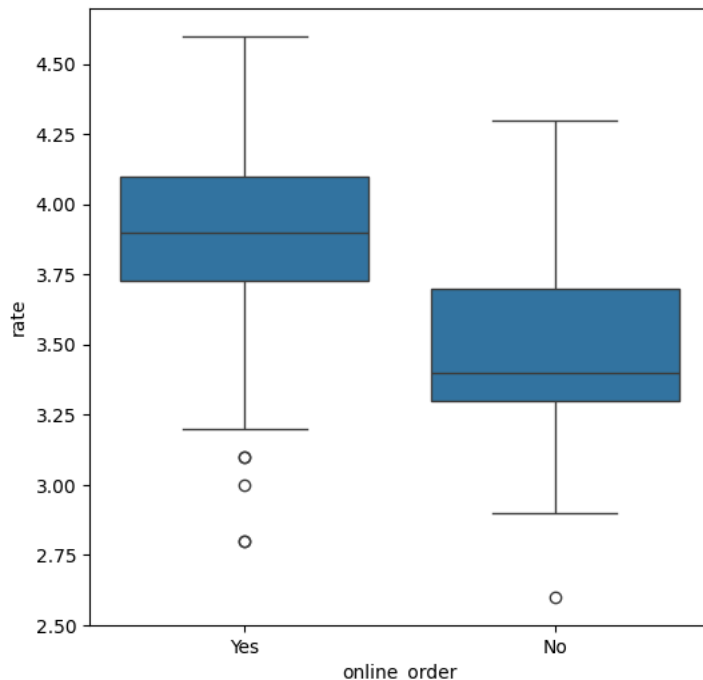
```
1 couple_data=dataframe['approx_cost(for two people)']
2 sns.countplot(x=couple_data)
```

```
<Axes: xlabel='approx_cost(for two people)', ylabel='count'>
```



```
1 plt.figure(figsize = (6,6))
2 sns.boxplot(x = 'online_order', y = 'rate', data = dataframe)
```

```
<Axes: xlabel='online_order', ylabel='rate'>
```



```
1 pivot_table = dataframe.pivot_table(index='listed_in(type)', columns='online_order', aggfunc='size', fill_value=0)
2 sns.heatmap(pivot_table, annot=True, cmap="YlGnBu", fmt='d')
3 plt.title("Heatmap")
4 plt.xlabel("Online Order")
5 plt.ylabel("Listed In (Type)")
6 plt.show()
```

