# cognify-l2-t1

January 20, 2024

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

[3]:
```
df = pd.read_csv("./L1T2_Dataset.csv")
df.head()
```

[3]:

| | Restaurant Name | Country Code | City | Address | Longitude | Latitude | Cuisines | Average Cost for two | Currency | Has Table booking | Has Online delivery | Is delivering now | Price range | Aggregate rating | Rating color | Rating text | Votes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Le Petit Souffle | 162 | Makati City | Third Floor, Century City Mall, Kalayaan Avenu… | 121.027535 | 14.565443 | French, Japanese, Desserts | 1100 | Botswana Pula(P) | 1 | 0 | 0 | 3 | 4.8 | Dark Green | Excellent | 314 |
| 1 | Izakaya Kikufuji | 162 | Makati City | Little Tokyo, 2277 Chino Roces Avenue, Legaspi… | 121.014101 | 14.553708 | Japanese | 1200 | Botswana Pula(P) | 1 | 0 | 0 | 3 | 4.5 | Dark Green | Excellent | 591 |
| 2 | Heat - Edsa Shangri-La | 162 | Mandaluyong City | Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal… | 121.056831 | 14.581404 | Seafood, Asian, Filipino, Indian | 4000 | Botswana Pula(P) | 1 | 0 | 0 | 4 | 4.4 | Green | Very Good | 270 |
| 3 | Ooma | 162 | Mandaluyong City | Third Floor, Mega Fashion Hall, SM Megamall, O… | 121.056475 | 14.585318 | Japanese, Sushi | 1500 | Botswana Pula(P) | 0 | 0 | 0 | 4 | 4.9 | Dark Green | Excellent | 365 |
| 4 | Sambo Kojin | 162 | Mandaluyong City | Third Floor, Mega Atrium, SM Megamall, Ortigas… | 121.057508 | 14.584450 | Japanese, Korean | 1500 | Botswana Pula(P) | 1 | 0 | 0 | 4 | 4.8 | Dark Green | Excellent | 365 |

| | | | | |
|---|---|---|---|---|
| 0 | 4.8 | 0 | 1 | 314 |
| 1 | 4.5 | 0 | 1 | 591 |
| 2 | 4.4 | 1 | 5 | 270 |
| 3 | 4.9 | 0 | 1 | 365 |
| 4 | 4.8 | 0 | 1 | 229 |

[25]:
```
print("{:.0f}% of restaurants have table booking facility.".format((df["Has␣
↪Table booking"].value_counts()[1]/df["Has Table booking"].shape[0])*100))
```

12% of restaurants have table booking facility.

[46]:
```
sum_rating_booking = 0

for i in range(0, len(df)):
  if df["Has Table booking"][i] == 1:
    sum_rating_booking += df["Aggregate rating"][i]
  else:
    pass

print("Average rating of Restaurants with table booking facility is {:.2f}/5.".
↪format(sum_rating_booking/df["Has Table booking"].value_counts()[1]))
```

Average rating of Restaurants with table booking facility is 3.44/5.

[27]:
```
print("{:.0f}% of restaurants have Online Delivery facility.".format((df["Has␣
↪Online delivery"].value_counts()[1]/df["Has Online delivery"].shape[0])*100))
```

26% of restaurants have Online Delivery facility.

[47]:
```
sum_rating_delivery = 0

for i in range(0, len(df)):
  if df["Has Online delivery"][i] == 1:
    sum_rating_delivery += df["Aggregate rating"][i]
  else:
    pass

print("Average rating of Restaurants with online delivery facility is {:.2f}/5.
↪".format(sum_rating_delivery/df["Has Online delivery"].value_counts()[1]))
```

Average rating of Restaurants with online delivery facility is 3.25/5.

[36]:
```
count = 0
for i in range(0, len(df)):
  if df["Has Table booking"][i]==1 & df["Has Online delivery"][i]==1:
    count+=1
  else:
    pass
```

```
print("{:.0f}% of restaurants have facilty of both Table Booking and Online␣
 ↪Delivery.".format((count/len(df))*100))
```

5% of restaurants have facilty of both Table Booking and Online Delivery.

[48]:
```
sum_rating_delivery_booking = 0

for i in range(0, len(df)):
  if df["Has Online delivery"][i] == 1 & df["Has Table booking"][i] == 1:
    sum_rating_delivery_booking += df["Aggregate rating"][i]
  else:
    pass

print("Average rating of Restaurants with both table booking and online␣
 ↪delivery facility is {:.2f}/5.".format(sum_rating_delivery_booking/count))
```

Average rating of Restaurants with both table booking and online delivery facility is 3.60/5.

[56]:
```
price_range = int(input("Please share preferred price range (1-5) --> "))
availble_restaurant_list = []

for i in range(0, len(df)):
  if df["Price range"][i] == price_range:
    if df["Has Online delivery"][i] == 1:
      availble_restaurant_list.append(df['Restaurant Name'][i])
    else:
      pass
  else:
    pass

if len(availble_restaurant_list) > 0:
  for j in range(0, len(availble_restaurant_list)):
    print("{}. {}".format(j+1, availble_restaurant_list[j]))
else:
  print("NO RESTAURANT AVAILBLE")
```

```
Please share preferred price range (1-5) --> 4
1. Famous Dave's Barbecue
2. Cho Gao - Crowne Plaza Abu Dhabi
3. Applebee's
4. Gazebo
5. Zaroob
6. Nayaab Haandi
7. Nando's
8. Peking Chinese Restaurant
9. TGI Friday's
```

10. Applebee's
11. The Fatty Bao - Asian Gastro Bar
12. Punjab Grill
13. California Pizza Kitchen
14. Raasta
15. Dhaba By Claridges
16. 7 Barrel Brew Pub
17. 56 Ristorante Italiano
18. Side Wok
19. TGI Friday's
20. 21 Gun Salute
21. Gung The Palace
22. Bernardo's
23. Olive Bistro
24. Zolocrust - Hotel Clarks Amer
25. Pebble Street
26. Embassy
27. Ardor 2.1
28. Caffe 9
29. Fuji Japanese Restaurant
30. Moets Stone
31. TGI Friday's
32. Cafe Diva
33. Side Wok
34. Diva - The Italian Restaurant
35. Uber Lounge
36. Raasta
37. Cafe Illuminatii
38. Side Wok
39. Wok  In The Clouds
40. Smokey's BBQ and Grill
41. Elma's Brasserie
42. Lodi - The Garden Restaurant
43. Buzz
44. The Great Kabab Factory
45. Spaghetti Kitchen
46. Sufiaana
47. Dirty Apron
48. Punjabi By Nature
49. TFK - The Flaming Kick
50. Eden Kitchen & Bar
51. TGI Friday's
52. Effingut Brewerkz
53. 18 Degrees Resto Lounge