

# evel-2-task-2-cuisine-combination

September 8, 2024

## 1 Level 2 Task 2. Cuisine Combination.ipynb

### 1.1 Import necessary libraries

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

### 1.2 read csv file

```
[2]: df = pd.read_csv("D:\Data Analytics\Internships\Cognifyz\Dataset .csv")
df.head(3)
```

```
[2]: Restaurant ID      Restaurant Name  Country Code      City \
0      6317637      Le Petit Souffle      162      Makati City
1      6304287      Izakaya Kikufuji      162      Makati City
2      6300002      Heat - Edsa Shangri-La      162      Mandaluyong City

                                Address \
0  Third Floor, Century City Mall, Kalayaan Avenu...
1  Little Tokyo, 2277 Chino Roces Avenue, Legaspi...
2  Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal...

                                Locality \
0  Century City Mall, Poblacion, Makati City
1  Little Tokyo, Legaspi Village, Makati City
2  Edsa Shangri-La, Ortigas, Mandaluyong City

                                Locality Verbose  Longitude  Latitude \
0  Century City Mall, Poblacion, Makati City, Mak...  121.027535  14.565443
1  Little Tokyo, Legaspi Village, Makati City, Ma...  121.014101  14.553708
2  Edsa Shangri-La, Ortigas, Mandaluyong City, Ma...  121.056831  14.581404

                                Cuisines ...      Currency Has Table booking \
0      French, Japanese, Desserts ...  Botswana Pula(P)      Yes
1      Japanese ...  Botswana Pula(P)      Yes
2  Seafood, Asian, Filipino, Indian ...  Botswana Pula(P)      Yes
```

	Has Online delivery	Is delivering now	Switch to order menu	Price range	\
0	No	No	No	3	
1	No	No	No	3	
2	No	No	No	4	

	Aggregate rating	Rating color	Rating text	Votes
0	4.8	Dark Green	Excellent	314
1	4.5	Dark Green	Excellent	591
2	4.4	Green	Very Good	270

[3 rows x 21 columns]

### 1.3 1. Identify the most common combinations of cuisines in the dataset.

```
[3]: most_common_cuisines = df.groupby('Cuisines')['Aggregate rating'].mean().
      ↪sort_values(ascending=False)
most_common_cuisines
```

```
[3]: Cuisines
Italian, Deli                4.9
Hawaiian, Seafood           4.9
American, Sandwich, Tea     4.9
Continental, Indian         4.9
European, Asian, Indian     4.9
...
Fast Food, Desserts, Beverages 0.0
Fast Food, Chinese, Burger    0.0
Cafe, French                 0.0
Seafood, Mughlai, North Indian 0.0
Fast Food, Mughlai, Armenian  0.0
Name: Aggregate rating, Length: 1825, dtype: float64
```

```
[4]: print("Most common cuisines are: \n\n", most_common_cuisines.head(10))
```

Most common cuisines are:

```
Cuisines
Italian, Deli                4.9
Hawaiian, Seafood           4.9
American, Sandwich, Tea     4.9
Continental, Indian         4.9
European, Asian, Indian     4.9
European, Contemporary      4.9
European, German            4.9
BBQ, Breakfast, Southern    4.9
American, Coffee and Tea     4.9
```

```
Sunda, Indonesian          4.9
Name: Aggregate rating, dtype: float64
```

#### 1.4 2. Determine if certain cuisine combinations tend to have higher ratings.

```
[5]: max_rating = most_common_cuisines.iloc[0]
      print("Maximum Rating of cuisines is:", max_rating)
```

```
Maximum Rating of cuisines is: 4.9
```

```
[6]: most_rate_restaurants = df.loc[df['Aggregate rating'] == max_rating]
      most_rate_restaurants['Restaurant Name']
```

```
[6]: 3                                Ooma
      8      Spiral - Sofitel Philippine Plaza Manila
      10                               Silantro Fil-Mex
      39                               Coco Bambu
      48                               Braseiro da G vea
      ...
      9484      Restaurant Mosaic @ The Orient
      9514                               Ministry of Crab
      9524                               Gaga Manjero
      9538                               Starbucks
      9540      Draft Gastro Pub
      Name: Restaurant Name, Length: 61, dtype: object
```