level-1-task-1-top-cuisines

September 6, 2024

1 Level 1 Task 1. Top Cuisines

1.1 Import necessary libraries

[66]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

1.2 read csv file

[75]:
```
df = pd.read_csv("D:\Data Analytics\Internships\Cognifyz\Dataset .csv")
df.head(3)
```

[75]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	…	Currency	Has Table booking
0	6317637	Le Petit Souffle	162	Makati City	Third Floor, Century City Mall, Kalayaan Avenu…	Century City Mall, Poblacion, Makati City	Century City Mall, Poblacion, Makati City, Mak…	121.027535	14.565443	French, Japanese, Desserts	…	Botswana Pula(P)	Yes
1	6304287	Izakaya Kikufuji	162	Makati City	Little Tokyo, 2277 Chino Roces Avenue, Legaspi…	Little Tokyo, Legaspi Village, Makati City	Little Tokyo, Legaspi Village, Makati City, Ma…	121.014101	14.553708	Japanese	…	Botswana Pula(P)	Yes
2	6300002	Heat - Edsa Shangri-La	162	Mandaluyong City	Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal…	Edsa Shangri-La, Ortigas, Mandaluyong City	Edsa Shangri-La, Ortigas, Mandaluyong City, Ma…	121.056831	14.581404	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]
```

[76]:
```
df.shape
```

[76]:
```
(9551, 21)
```

1.3 1. Determine the top three most common cuisines in the dataset

[77]:
```
cuisine_count = df['Cuisines'].str.split(', ')
cuisine_count
```

[77]:
```
0             [French, Japanese, Desserts]
1                                 [Japanese]
2       [Seafood, Asian, Filipino, Indian]
3                           [Japanese, Sushi]
4                         [Japanese, Korean]
                        ...
9546                              [Turkish]
9547     [World Cuisine, Patisserie, Cafe]
9548               [Italian, World Cuisine]
9549                      [Restaurant Cafe]
9550                                  [Cafe]
Name: Cuisines, Length: 9551, dtype: object
```

[78]:
```
cuisine_count = cuisine_count.explode()
cuisine_count
```

[78]:
```
0               French
0             Japanese
0             Desserts
1             Japanese
2              Seafood
              ...
9547             Cafe
9548          Italian
9548    World Cuisine
```

```
9549    Restaurant Cafe
9550               Cafe
Name: Cuisines, Length: 19719, dtype: object
```

[79]:
```
cuisine_count = cuisine_count.value_counts()
cuisine_count
```

[79]:
```
North Indian      3960
Chinese           2735
Fast Food         1986
Mughlai            995
Italian            764
                  …
Fish and Chips       1
Malwani              1
Cuisine Varies       1
Soul Food            1
B _rek               1
Name: Cuisines, Length: 145, dtype: int64
```

[82]:
```
cuisine_count.head(3)
```

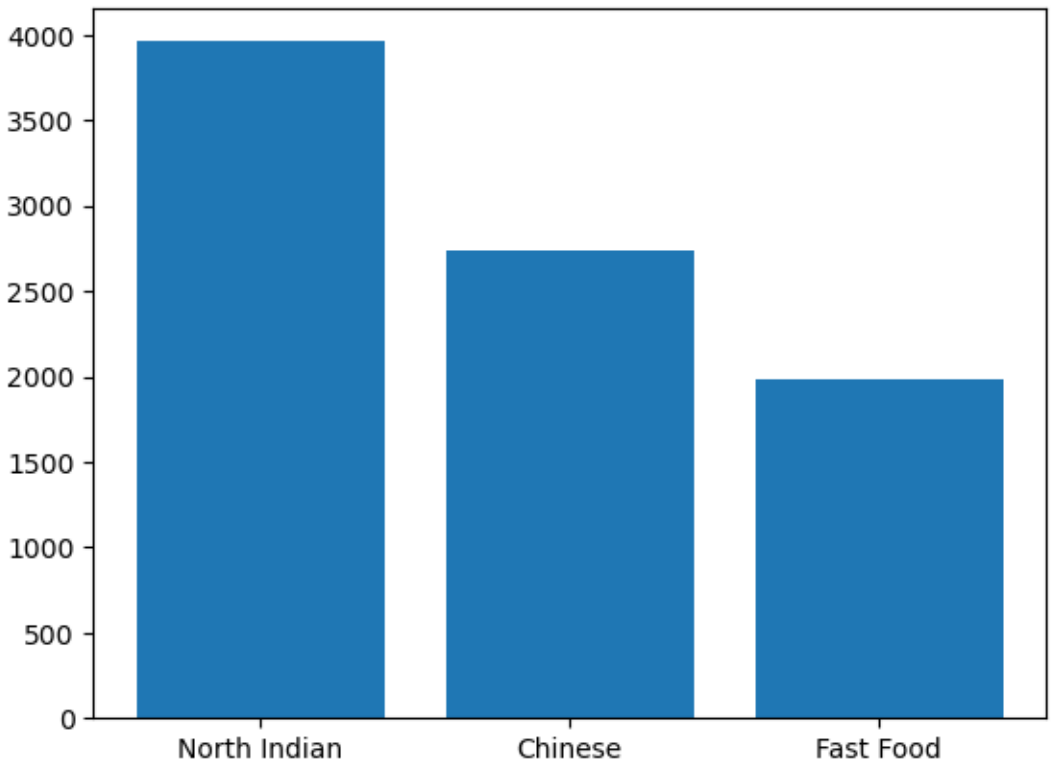
[82]:
```
North Indian    3960
Chinese         2735
Fast Food       1986
Name: Cuisines, dtype: int64
```

[90]:
```
visual = cuisine_count.reset_index().head(3)
visual
```

[90]:
```
           index  Cuisines
0  North Indian      3960
1       Chinese      2735
2     Fast Food      1986
```

[91]:
```
plt.bar(visual['index'], visual['Cuisines'])
```

[91]:
```
<BarContainer object of 3 artists>
```



1.4 2. Calculate the percentage of restaurants that serve each of the top cuisines.

[55]:
```
total_restaurants = len(df)
total_restaurants
```

[55]:
```
9551
```

[93]:
```
percentage = (cuisine_count.head() / total_resaurants) * 100
percentage
```

[93]:
```
North Indian    41.461627
Chinese         28.635745
Fast Food       20.793634
Mughlai         10.417757
Italian          7.999162
Name: Cuisines, dtype: float64
```

[95]:
```
visual = percentage.reset_index()
visual
```

[95]:

	index	Cuisines
0	North Indian	41.461627
1	Chinese	28.635745
2	Fast Food	20.793634
3	Mughlai	10.417757
4	Italian	7.999162

[96]:
```
plt.bar(visual['index'], visual['Cuisines'])
```

[96]:
```
<BarContainer object of 5 artists>
```