swiggy

April 19, 2023

1 CS 6220 Final Project

- 2 Analyzing Swiggy Restaurant Catalog Data
- 2.1 Group: Amber
- 2.1.1 Members: Sudhanva Narayana, Shreyas Prasad, Matthew Chan
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 - Quick Inspection of the Data
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```
[1]: import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

[2]: plots_path = './plots/'

[3]: df = pd.read_csv('swiggy.csv')
```

2.3 Quick Inspection of the Data

```
[4]: df.head()
[4]:
            id
                                      city rating
                                                       rating_count
                              name
                                                                      cost
        567335
                   AB FOODS POINT
                                    Abohar
                                                   Too Few Ratings
                                                                       200
     1 531342
                Janta Sweet House
                                    Abohar
                                              4.4
                                                        50+ ratings
                                                                       200
     2 158203
                theka coffee desi
                                    Abohar
                                              3.8
                                                       100+ ratings
                                                                       100
     3 187912
                        Singh Hut
                                    Abohar
                                              3.7
                                                        20+ ratings
                                                                       250
                    GRILL MASTERS
     4 543530
                                    Abohar
                                                   Too Few Ratings
                                                                       250
                            cuisine
                                             lic_no \
                  Beverages, Pizzas
     0
                                     22122652000138
                     Sweets, Bakery
     1
                                     12117201000112
     2
                         Beverages 22121652000190
     3
                  Fast Food, Indian 22119652000167
       Italian-American, Fast Food 12122201000053
```

```
link \
     0 https://www.swiggy.com/restaurants/ab-foods-po...
     1 https://www.swiggy.com/restaurants/janta-sweet...
     2 https://www.swiggy.com/restaurants/theka-coffe...
     3 https://www.swiggy.com/restaurants/singh-hut-n...
     4 https://www.swiggy.com/restaurants/grill-maste...
                                                   address
       AB FOODS POINT, NEAR RISHI NARANG DENTAL CLINI... Menu/567335.json
        Janta Sweet House, Bazar No.9, Circullar Road,... Menu/531342.json
     2
               theka coffee desi, sahtiya sadan road city Menu/158203.json
     3
          Singh Hut, CIRCULAR ROAD NEAR NEHRU PARK ABOHAR Menu/187912.json
        GRILL MASTERS, ADA Heights, Abohar - Hanumanga... Menu/543530.json
[5]: df.tail()
[5]:
                                                                     rating_count \
                 id
                                          name
                                                    city rating
             553122
                                                                  Too Few Ratings
     148536
                             The Food Delight
                                                Yavatmal
                     MAITRI FOODS & BEVERAGES
     148537
             562647
                                                Yavatmal
                                                                  Too Few Ratings
     148538
             559435
                               Cafe Bella Ciao
                                                Yavatmal
                                                                  Too Few Ratings
                                   GRILL ZILLA Yavatmal
     148539
             418989
                                                                  Too Few Ratings
     148540
            447770
                               Lazeez kitchen Yavatmal
                                                                  Too Few Ratings
                                               lic_no
              cost
                             cuisine
     148536
              200
                   Fast Food, Snacks
                                      21522053000452
     148537
               300
                              Pizzas
                                              license
     148538
               300
                  Fast Food, Snacks
                                      21522251000378
     148539
               250
                         Continental
                                      21521251000241
     148540
               200
                              Pizzas
                                      21521251000634
                                                           link \
     148536
             https://www.swiggy.com/restaurants/the-food-de...
             https://www.swiggy.com/restaurants/maitri-food...
     148537
             https://www.swiggy.com/restaurants/cafe-bella-...
     148538
     148539
             https://www.swiggy.com/restaurants/grill-zilla...
             https://www.swiggy.com/restaurants/lazeez-kitc...
     148540
                                                        address
                                                                              menu
     148536
             The Food Delight, 94MC+X35, New Singhania Naga...
                                                               Menu/553122. json
             MAITRI FOODS & BEVERAGES, POLIC MITRYA SOCIETY...
     148537
                                                                Menu/562647.json
     148538
             Cafe Bella Ciao, SHOP NO 2 NEMANI MARKET SBI S...
                                                                Menu/559435.json
     148539
             GRILL ZILLA, SHO NO 2/6, POSTEL GROUND CHOWPAT...
                                                                Menu/418989.json
     148540
             Lazeez kitchen, 94G3+2RR, Wadgaon, Yavatmal, M...
                                                               Menu/447770.json
[6]: df.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 148541 entries, 0 to 148540
Data columns (total 11 columns):

#	Column	Non-Null Count	Dtype
0	id	148541 non-null	int64
1	name	148455 non-null	object
2	city	148541 non-null	object
3	rating	148455 non-null	object
4	rating_count	148455 non-null	object
5	cost	148410 non-null	object
6	cuisine	148442 non-null	object
7	lic_no	148312 non-null	object
8	link	148541 non-null	object
9	address	148455 non-null	object
10	menu	148541 non-null	object

dtypes: int64(1), object(10)
memory usage: 12.5+ MB

NaN

max

[7]: df.describe(include='all')

								,
[7]:			id		,	•	U _	\
	count	148541.		148455		148455	148455	
	unique		NaN			42	8	
	top		NaN	Domino's Pizza	Bikaner		Too Few Ratings	
	freq		NaN	442	1666	87014	87014	
	mean	363466.	378912	NaN	NaN	NaN	NaN	
	std	167890.	977174	NaN	NaN	NaN	NaN	
	min	211.	000000	NaN	NaN	NaN	NaN	
	25%	233320.	000000	NaN	NaN	NaN	NaN	
	50%	412628.	000000	NaN	NaN	NaN	NaN	
	75%	502223.	000000	NaN	NaN	NaN	NaN	
	max	581031.	000000	NaN	NaN	NaN	NaN	
		cost		cuisine	lic_no	\		
	count	148410		148442	148312			
	unique	363		2132	108763			
	top	200	North	Indian,Chinese	license			
	freq	38635		6471	12861			
	mean	NaN		NaN	NaN			
	std	NaN		NaN	NaN			
	min	NaN		NaN	NaN			
	25%	NaN		NaN	NaN			
	50%	NaN		NaN	NaN			
	75%	NaN		NaN	NaN			
	. 570	11411		Nan	11411			

NaN

 ${\tt NaN}$

```
link
                                                           148541
     count
     unique
                                                           148541
             https://www.swiggy.com/restaurants/ab-foods-po...
     top
     freq
                                                               NaN
     mean
     std
                                                               NaN
     min
                                                               NaN
     25%
                                                               NaN
     50%
                                                               NaN
     75%
                                                               NaN
                                                               NaN
     max
                                                     address
                                                                           menu
                                                      148455
                                                                          148541
     count
     unique
                                                      148401
                                                                          148541
             Gold Star Biryani, RS Road Dindigul - 624001
                                                               Menu/567335.json
     top
     freq
     mean
                                                         NaN
                                                                             NaN
                                                         NaN
                                                                             NaN
     std
     min
                                                         NaN
                                                                             NaN
     25%
                                                                            NaN
                                                         NaN
     50%
                                                                             NaN
                                                         NaN
     75%
                                                         NaN
                                                                            NaN
                                                                             NaN
     max
                                                         NaN
[8]:
    df.columns
[8]: Index(['id', 'name', 'city', 'rating', 'rating_count', 'cost', 'cuisine',
             'lic_no', 'link', 'address', 'menu'],
           dtype='object')
```

2.4 Important Features that could be useful

- city: Location can be a major aspect of how restaurants and their properties can change
- rating: Could be a major factor in deciding the quality of the restaurant
- rating_count: Could be a major factor in deciding the authenticity of the ratings
- cost: Important feature for deciding how to price the restaurants
- cuisine: Could be a major factor in categorizing the restaurants based on trends and type of food

```
[9]: def preprocess_city(entry):
    # Split the entry by comma separator
    values = entry.split(',')

# Check number of values and modify as necessary
    if len(values) == 1:
```

```
# Prepend the same value twice
              values = [values[0], values[0], values[0]]
          elif len(values) == 2:
              # Prepend the first value to the list
              values = [values[0]] + values
          # Join the values back into a comma separated string
          return ','.join(values)
      def preprocess_cuisine(entry):
          values = entry.split(',')
          if len(values) == 1:
              values = [values[0]] + values
              # Join the values back into a comma separated string
              return ','.join(values)
          return ','.join(values)
[10]: df['city'].value_counts()
[10]: Bikaner
                              1666
     Noida-1
                              1428
      Indirapuram, Delhi
                              1279
     BTM, Bangalore
                              1161
      Rohini, Delhi
                              1136
      Alwarpet, Chennai
                                 1
     Naharlagun
                                  1
     Mahim Dadar, Mumbai
                                  1
      Starbucks_BKC, Mumbai
                                  1
      Name: city, Length: 821, dtype: int64
[11]: df['city'][df['city'].isna()]
[11]: Series([], Name: city, dtype: object)
     2.4.1 Imputing data
[12]: df['city'] = df['city'].apply(preprocess_city)
[13]: df['city'].value_counts()
[13]: Bikaner, Bikaner, Bikaner
                                             1666
      Noida-1, Noida-1, Noida-1
                                             1428
      Indirapuram,Indirapuram,Delhi
                                             1279
```

```
BTM,BTM,Bangalore 1161
Rohini,Rohini,Delhi 1136
...
Alwarpet,Alwarpet,Chennai 1
Naharlagun,Naharlagun 1
Mahim Dadar,Mahim Dadar,Mumbai 1
Starbucks_BKC,Starbucks_BKC,Mumbai 1
Rangpo,Rangpo,Rangpo 1
Name: city, Length: 821, dtype: int64
```

Spitting the city column into sub_area, area and city

```
[14]: df[['sub_area', 'area', 'city']] = df['city'].str.split(',', expand=True)
[15]: df
[15]:
                   id
                                            name
                                                       city rating
                                                                        rating_count
              567335
                                  AB FOODS POINT
      0
                                                     Abohar
                                                                     Too Few Ratings
      1
              531342
                              Janta Sweet House
                                                     Abohar
                                                               4.4
                                                                         50+ ratings
      2
              158203
                              theka coffee desi
                                                     Abohar
                                                               3.8
                                                                        100+ ratings
      3
              187912
                                       Singh Hut
                                                     Abohar
                                                                         20+ ratings
                                                               3.7
      4
              543530
                                   GRILL MASTERS
                                                     Abohar
                                                                     Too Few Ratings
      148536
              553122
                               The Food Delight
                                                  Yavatmal
                                                                     Too Few Ratings
                       MAITRI FOODS & BEVERAGES
                                                  Yavatmal
                                                                     Too Few Ratings
      148537
              562647
      148538
              559435
                                Cafe Bella Ciao
                                                   Yavatmal
                                                                     Too Few Ratings
                                     GRILL ZILLA
                                                   Yavatmal
                                                                     Too Few Ratings
      148539
              418989
      148540
              447770
                                 Lazeez kitchen
                                                   Yavatmal
                                                                    Too Few Ratings
               cost
                                          cuisine
                                                            lic_no
      0
                200
                                Beverages, Pizzas
                                                   22122652000138
                                   Sweets, Bakery
      1
                200
                                                   12117201000112
      2
                100
                                       Beverages
                                                   22121652000190
      3
                250
                                Fast Food, Indian
                                                   22119652000167
      4
                250
                     Italian-American, Fast Food
                                                   12122201000053
      148536
                200
                                Fast Food, Snacks
                                                   21522053000452
      148537
                300
                                          Pizzas
                                                           license
                300
                                Fast Food, Snacks 21522251000378
      148538
                                     Continental
      148539
                250
                                                   21521251000241
                                           Pizzas 21521251000634
      148540
                200
      0
              https://www.swiggy.com/restaurants/ab-foods-po...
              https://www.swiggy.com/restaurants/janta-sweet...
      1
      2
              https://www.swiggy.com/restaurants/theka-coffe...
      3
              https://www.swiggy.com/restaurants/singh-hut-n...
```

```
4
        https://www.swiggy.com/restaurants/grill-maste...
148536
        https://www.swiggy.com/restaurants/the-food-de...
        https://www.swiggy.com/restaurants/maitri-food...
148537
        https://www.swiggy.com/restaurants/cafe-bella-...
148538
        https://www.swiggy.com/restaurants/grill-zilla...
148539
        https://www.swiggy.com/restaurants/lazeez-kitc...
148540
                                                    address
                                                                          menu \
0
        AB FOODS POINT, NEAR RISHI NARANG DENTAL CLINI... Menu/567335.json
1
        Janta Sweet House, Bazar No.9, Circullar Road, ... Menu/531342.json
2
               theka coffee desi, sahtiya sadan road city Menu/158203.json
3
          Singh Hut, CIRCULAR ROAD NEAR NEHRU PARK ABOHAR Menu/187912.json
4
        GRILL MASTERS, ADA Heights, Abohar - Hanumanga...
                                                           Menu/543530.json
148536
        The Food Delight, 94MC+X35, New Singhania Naga...
                                                           Menu/553122.json
        MAITRI FOODS & BEVERAGES, POLIC MITRYA SOCIETY...
148537
                                                           Menu/562647.json
        Cafe Bella Ciao, SHOP NO 2 NEMANI MARKET SBI S...
148538
                                                           Menu/559435.json
148539
        GRILL ZILLA, SHO NO 2/6, POSTEL GROUND CHOWPAT...
                                                           Menu/418989.json
148540
        Lazeez kitchen, 94G3+2RR, Wadgaon, Yavatmal, M...
                                                           Menu/447770.json
        sub area
                      area
0
          Abohar
                    Abohar
1
          Abohar
                    Abohar
2
          Abohar
                    Abohar
3
          Abohar
                    Abohar
          Abohar
                    Abohar
                   •••
148536
       Yavatmal
                  Yavatmal
148537
       Yavatmal
                  Yavatmal
148538
       Yavatmal
                  Yavatmal
148539
                  Yavatmal
        Yavatmal
148540
        Yavatmal
                  Yavatmal
[148541 rows x 13 columns]
```

2.4.2 Quick look after imputation

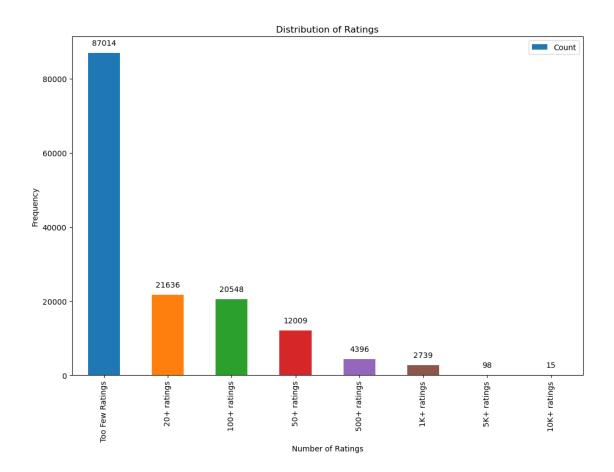
[16]: df[['sub_area', 'area', 'city']].value_counts() [16]: sub_area area city Bikaner Bikaner Bikaner 1666 Noida-1 Noida-1 Noida-1 1428 Indirapuram Indirapuram Delhi 1279 BTMBTMBangalore 1161 Rohini Rohini Delhi 1136

•••

```
BBK_MayurVihar BBK_MayurVihar
                                Delhi
                                                1
Mahim Dadar
                Mahim Dadar
                                Mumbai
                                                1
Rangpo
                Rangpo
                                Rangpo
                                                1
                                Manali
Manali
                Manali
Kohima
                Kohima
                                Kohima
                                                1
Length: 821, dtype: int64
```

2.4.3 Visualising Ratings

```
[17]: # Define a colormap
      cmap = sns.color_palette('tab10', len(df['rating_count'].value_counts()))
      # Create a bar plot of the rating counts
      ax = df['rating_count'].value_counts().plot(kind='bar', color=cmap,_
       ⇔figsize=(12, 8))
      # Set the title of the plot
      ax.set_title('Distribution of Ratings')
      \# Set the label for the x-axis
      ax.set_xlabel('Number of Ratings')
      # Set the label for the y-axis
      ax.set_ylabel('Frequency')
      # Add a legend to the plot
      ax.legend(['Count'], loc='upper right')
      # Display the values on top of the bars
      for i in ax.containers:
          ax.bar_label(i, label_type='edge', fontsize=10, padding=8)
      # Display the plot
      plt.savefig(plots_path + 'distribution-of-ratings.png', bbox_inches='tight')
      plt.show()
```



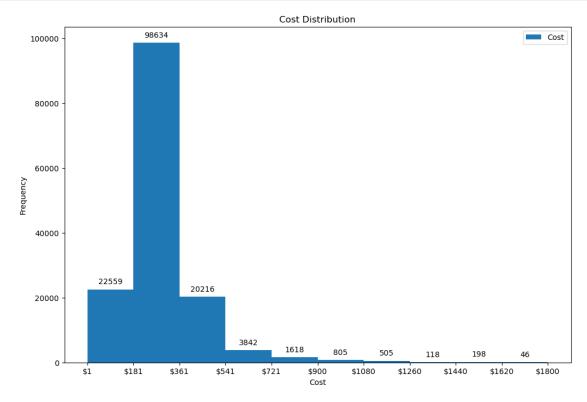
2.4.4 Visualising Cost

```
[20]: df['cost'] = filter_outliers(df, 'cost')

[21]: df['cost'] = df['cost'].fillna(df['cost'].median())

[22]: # Set up the histogram plot
fig, ax = plt.subplots(figsize=(12, 8))
n, bins, patches = ax.hist(df['cost'], bins=10)
```

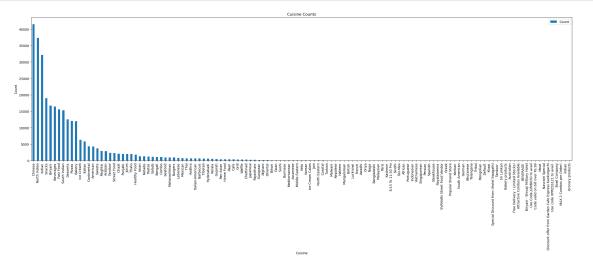
```
# Customize plot details
ax.set_title('Cost Distribution')
ax.set_xlabel('Cost')
ax.set_ylabel('Frequency')
ax.set_xticks(bins)
ax.set_xticklabels(['${:.0f}'.format(b) for b in bins])
ax.legend(['Cost'])
# Add value labels to the top of each bar
for i in range(len(patches)):
   x = patches[i].get_x() + patches[i].get_width() / 2
   y = patches[i].get_height()
   ax.annotate('{:.0f}'.format(y), (x, y), xytext=(0, 5),
                textcoords='offset points', ha='center', va='bottom')
# Display the plot
plt.savefig(plots_path + 'cost-distribution.png', bbox_inches='tight')
plt.show()
```



2.4.5 Analsing Cuisime

```
[23]: df['cuisine']
[23]: 0
                           Beverages, Pizzas
      1
                              Sweets, Bakery
      2
                                  Beverages
      3
                           Fast Food, Indian
                 Italian-American, Fast Food
      148536
                           Fast Food, Snacks
      148537
                                      Pizzas
                           Fast Food, Snacks
      148538
      148539
                                Continental
      148540
                                      Pizzas
      Name: cuisine, Length: 148541, dtype: object
[24]: df['cuisine'].value_counts()
[24]: North Indian, Chinese
                                     6471
      Indian
                                     6414
      Chinese
                                     5051
      North Indian
                                     4775
      Indian, Chinese
                                     4374
      Vietnamese, Pan-Asian
                                        1
      Healthy Food, Pan-Asian
                                        1
      Home Food, Naga
                                        1
      Korean, Desserts
                                        1
      Barbecue, Italian-American
      Name: cuisine, Length: 2132, dtype: int64
[25]: df = df.dropna(subset=['cuisine']).copy()
     df.loc[:, 'cuisine'] = df['cuisine'].apply(preprocess_cuisine)
[27]: df['cuisine']
[27]: 0
                           Beverages,Pizzas
      1
                              Sweets, Bakery
      2
                        Beverages, Beverages
                           Fast Food, Indian
      3
                 Italian-American, Fast Food
                           Fast Food, Snacks
      148536
      148537
                              Pizzas, Pizzas
      148538
                           Fast Food, Snacks
```

```
148539 Continental, Continental
148540 Pizzas, Pizzas
Name: cuisine, Length: 148442, dtype: object
```



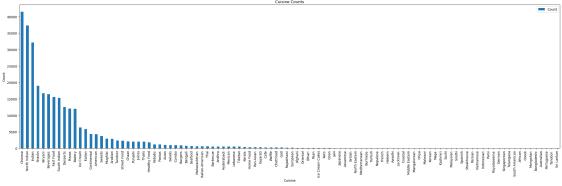
```
[29]: not_cuisines = [
    '8:15 To 11:30 Pm',
    'Tex-Mex',
    'SVANidhi Street Food Vendor',
    'Popular Brand Store', 'Bhutanese',
    'Default',
    'Special Discount from (Hotel Swagath)',
    'Bakery products',
    'Free Delivery ! Limited Stocks!',
```

```
'Attractive Combos Available',
'BEVERAGE',
'Biryani - Shivaji Military Hotel',
'Use Code JUMB030 to avail',
'Code valid on bill over Rs.99',
'Meat',
'Navratri Special',
'Discount offer from Garden Cafe Express Kankurgachi',
'Use code XPRESS121 to avail.',
'Bowl Company',
'MAX 2 Combos per Order!',
'Grocery products'
]
```

[31]: frequent_cuisines

[31]: Chinese 41515 North Indian 37312 Indian 32130 Snacks 19019 Biryani 16750 Beverages 16427 Fast Food 15563 South Indian 15317 Desserts 12529 Pizzas 12060 11970 Bakery Ice Cream 6354 Italian 5802 Continental 4319 American 4279 Sweets 3690 Mughlai 2934 Arabian 2870 Tandoor 2388 Street Food 2270 Chaat 2066

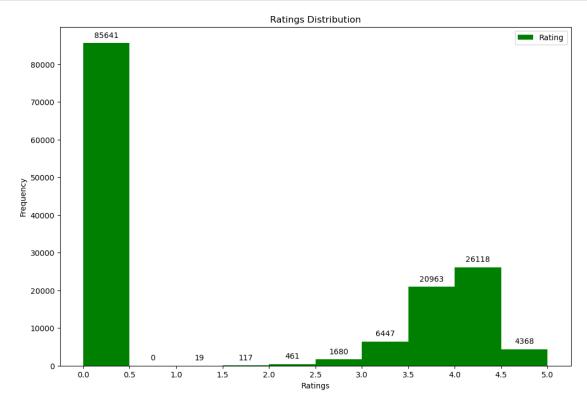
```
2004
      Punjabi
      Juices
                       1997
      Thalis
                       1971
      Healthy Food
                       1769
      dtype: int64
[32]: df = df[df['cuisine'].str.split(',', expand=True).isin(frequent_cuisines.index).
       →any(axis=1)]
[33]: df = df[~df['cuisine'].str.split(',', expand=True).isin(not_cuisines).
       →any(axis=1)]
[34]: cuisine_counts = df['cuisine'].str.split(',', expand=True).stack().
       ⇔value_counts()
      # Set up the bar plot
      fig, ax = plt.subplots(figsize=(30,8))
      cuisine_counts.plot(kind='bar')
      # Customize plot details
      ax.set_title('Cuisine Counts')
      ax.set_xlabel('Cuisine')
      ax.set_ylabel('Count')
      ax.legend(['Count'])
      # Display the plot
      plt.savefig(plots_path + 'cusine-counts-2.png', bbox_inches='tight')
      plt.show()
```

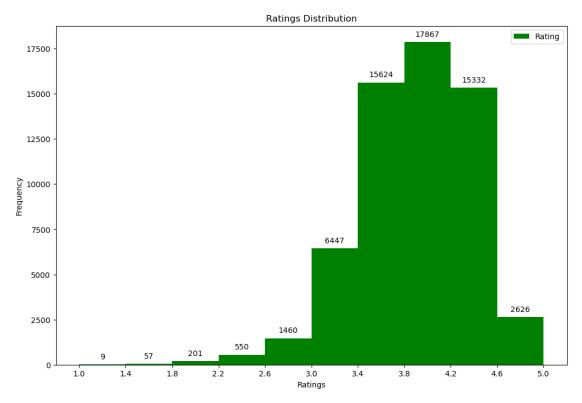


```
[35]: df[['cuisine1', 'cuisine2']] = df['cuisine'].str.split(',', expand=True) df.drop(columns=['cuisine'], inplace=True)
```

```
[36]: df.head()
```

```
[36]:
                                                     rating_count
             id
                             name
                                      city rating
                                                                     cost \
      0 567335
                    AB FOODS POINT
                                  Abohar
                                                  Too Few Ratings 200.0
      1 531342 Janta Sweet House
                                   Abohar
                                                       50+ ratings 200.0
                                              4.4
      2 158203 theka coffee desi Abohar
                                              3.8
                                                      100+ ratings 100.0
      3 187912
                         Singh Hut
                                                       20+ ratings 250.0
                                   Abohar
                                              3.7
      4 543530
                     GRILL MASTERS Abohar
                                                  Too Few Ratings 250.0
                lic_no
                                                                      link \
      0 22122652000138 https://www.swiggy.com/restaurants/ab-foods-po...
      1 12117201000112 https://www.swiggy.com/restaurants/janta-sweet...
      2 22121652000190 https://www.swiggy.com/restaurants/theka-coffe...
      3 22119652000167
                        https://www.swiggy.com/restaurants/singh-hut-n...
      4 12122201000053 https://www.swiggy.com/restaurants/grill-maste...
                                                   address
      O AB FOODS POINT, NEAR RISHI NARANG DENTAL CLINI... Menu/567335.json
      1 Janta Sweet House, Bazar No.9, Circullar Road,... Menu/531342.json
                theka coffee desi, sahtiya sadan road city Menu/158203.json
      2
      3
           Singh Hut, CIRCULAR ROAD NEAR NEHRU PARK ABOHAR Menu/187912.json
      4 GRILL MASTERS, ADA Heights, Abohar - Hanumanga... Menu/543530.json
                                 cuisine1
                                             cuisine2
        sub area
                    area
      0
         Abohar Abohar
                                Beverages
                                              Pizzas
         Abohar Abohar
      1
                                   Sweets
                                               Bakery
      2
         Abohar Abohar
                                Beverages
                                           Beverages
                                               Indian
      3
         Abohar Abohar
                                Fast Food
         Abohar Abohar Italian-American Fast Food
[37]: df['rating'] = df['rating'].replace('--', '0')
[38]: df['rating'] = df['rating'].astype('float')
[39]: # Set up the histogram plot
      fig, ax = plt.subplots(figsize=(12, 8))
      n, bins, patches = ax.hist(df['rating'], bins=10, color='green')
      # Customize plot details
      ax.set_title('Ratings Distribution')
      ax.set_xlabel('Ratings')
      ax.set_ylabel('Frequency')
      ax.set_xticks(bins)
      ax.legend(['Rating'])
      # Add value labels to the top of each bar
      for i in range(len(patches)):
         x = patches[i].get_x() + patches[i].get_width() / 2
         y = patches[i].get_height()
```





```
[41]: df.head()
[41]:
                                                         rating_count
             id
                               name
                                       city
                                             rating
                                                                         cost
         567335
                    AB FOODS POINT
                                     Abohar
                                                 0.0
                                                      Too Few Ratings
                                                                        200.0
                                                          50+ ratings
         531342
                 Janta Sweet House
                                     Abohar
                                                 4.4
                                                                        200.0
                                                         100+ ratings
      2
         158203
                 theka coffee desi
                                     Abohar
                                                 3.8
                                                                        100.0
      3 187912
                          Singh Hut
                                     Abohar
                                                 3.7
                                                          20+ ratings
                                                                        250.0
         543530
                      GRILL MASTERS
                                     Abohar
                                                 0.0
                                                      Too Few Ratings
                                                                        250.0
                 lic no
                                                                        link \
         22122652000138
                          https://www.swiggy.com/restaurants/ab-foods-po...
                          https://www.swiggy.com/restaurants/janta-sweet...
        12117201000112
      2 22121652000190
                          https://www.swiggy.com/restaurants/theka-coffe...
      3 22119652000167
                          https://www.swiggy.com/restaurants/singh-hut-n...
      4 12122201000053 https://www.swiggy.com/restaurants/grill-maste...
```

address menu \ O AB FOODS POINT, NEAR RISHI NARANG DENTAL CLINI... Menu/567335.json Janta Sweet House, Bazar No.9, Circullar Road,... Menu/531342.json 1 theka coffee desi, sahtiya sadan road city Menu/158203.json 3 Singh Hut, CIRCULAR ROAD NEAR NEHRU PARK ABOHAR Menu/187912.json 4 GRILL MASTERS, ADA Heights, Abohar - Hanumanga... Menu/543530.json cuisine1 cuisine2 sub_area area Abohar Abohar Beverages Pizzas Abohar Abohar 1 Sweets Bakery Abohar Abohar Beverages Beverages Abohar Abohar Fast Food Indian Abohar Abohar Italian-American Fast Food [42]: df.to_csv('swiggy-preprocessed.csv', index=False)