# statistics

## February 14, 2024

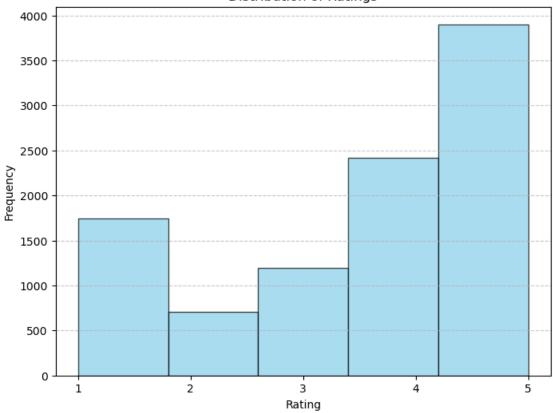
```
[1]: import pandas as pd
     import numpy as np
[2]: df=pd.read_csv('Restaurant reviews.csv', encoding = "ISO-8859-1")
[3]: df.head()
[3]:
             Restaurant
                                     Reviewer \
     0 Beyond Flavours
                            Rusha Chakraborty
     1 Beyond Flavours Anusha Tirumalaneedi
     2 Beyond Flavours
                              Ashok Shekhawat
     3 Beyond Flavours
                               Swapnil Sarkar
     4 Beyond Flavours
                                       Dileep
                                                   Review Rating \
     O The ambience was good, food was quite good . h...
                                                             5
     1 Ambience is too good for a pleasant evening. S...
                                                             5
                                                             5
     2 A must try.. great food great ambience. Thnx f...
     3 Soumen das and Arun was a great guy. Only beca...
                                                             5
     4 Food is good.we ordered Kodi drumsticks and ba...
                       Metadata
                                            Time Pictures
         1 Review , 2 Followers 5/25/2019 15:54
     1 3 Reviews , 2 Followers 5/25/2019 14:20
                                                         0
     2 2 Reviews , 3 Followers 5/24/2019 22:54
                                                         0
          1 Review , 1 Follower 5/24/2019 22:11
                                                         0
     4 3 Reviews , 2 Followers 5/24/2019 21:37
                                                         0
[4]: df.shape
[4]: (10000, 7)
[5]: # Get the number of columns
     num_columns = len(df.columns)
     print("Total columns present in the dataset:", num_columns)
```

Total columns present in the dataset: 7

```
[6]: # Get the column names
     column_names = df.columns
     print("Column names present in the dataset:")
     for col in column_names:
         print(col)
    Column names present in the dataset:
    Restaurant
    Reviewer
    Review
    Rating
    Metadata
    Time
    Pictures
[7]: import matplotlib.pyplot as plt
[8]: # Convert 'Rating' column to numeric, coerce errors to NaN
     df['Rating'] = pd.to_numeric(df['Rating'], errors='coerce')
     # Drop NaN values
     df.dropna(subset=['Rating'], inplace=True)
     # Plotting the histogram
     plt.figure(figsize=(8, 6))
     plt.hist(df['Rating'], bins=5, color='skyblue', edgecolor='black', alpha=0.7)
     plt.title('Distribution of Ratings')
     plt.xlabel('Rating')
     plt.ylabel('Frequency')
     plt.xticks(range(1, 6)) # Ensure ticks are only on integers from 1 to 5
     plt.grid(axis='y', linestyle='--', alpha=0.7)
```

plt.show()





## [9]: import seaborn as sns

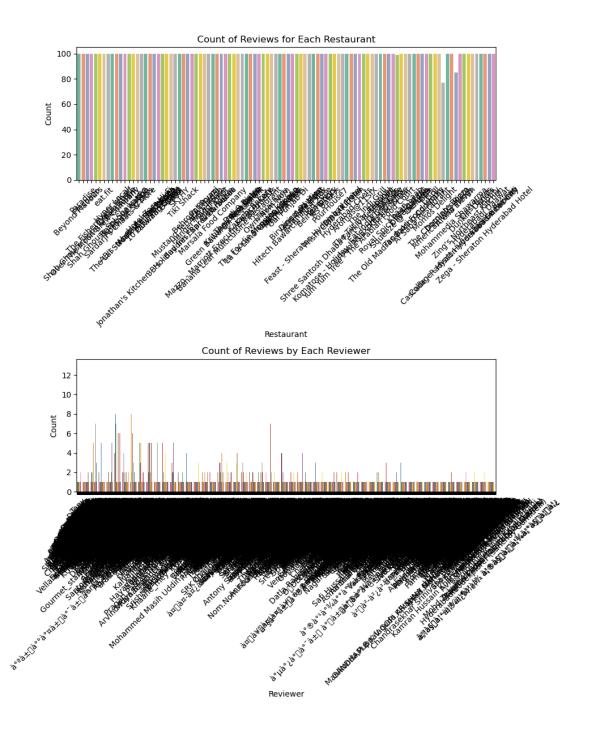
```
[10]: # Set up the figure
      plt.figure(figsize=(10, 12)) # Adjusting figure size for vertical display
      # Plotting the count of reviews for each restaurant
      plt.subplot(2, 1, 1) # 2 rows, 1 column, subplot 1
      sns.countplot(data=df, x='Restaurant', palette='Set2')
      plt.title('Count of Reviews for Each Restaurant')
      plt.xlabel('Restaurant')
      plt.ylabel('Count')
      plt.xticks(rotation=45) # Rotate x-axis labels for better readability
      # Plotting the count of reviews by each reviewer
      plt.subplot(2, 1, 2) # 2 rows, 1 column, subplot 2
      sns.countplot(data=df, x='Reviewer', palette='Set1')
      plt.title('Count of Reviews by Each Reviewer')
      plt.xlabel('Reviewer')
      plt.ylabel('Count')
      plt.xticks(rotation=45) # Rotate x-axis labels for better readability
```

```
# Adjust layout to prevent overlap
plt.tight_layout()
# Show plots
plt.show()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 141 (\x8d) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 130 (\x82) missing from current font.
  plt.tight layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 135 (\x87) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 156 (\x9c) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 148 (\x94) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 143 (\x8f) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 159 (\x9f) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 129 (\x81) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 145 (\x91) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 128 (\x80) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 153 (\x99) missing from current font.
  plt.tight_layout()
{\tt C:\Users\\iamim\AppData\\Local\Temp\\ipykernel\_18020\\3484736635.py:21: UserWarning:}
Glyph 140 (\x8c) missing from current font.
  plt.tight layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 139 (\x8b) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
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Glyph 155 (\x9b) missing from current font.
 plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 151 (\x97) missing from current font.
 plt.tight layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 146 (\xy92) missing from current font.
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C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 133 (\x85) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 149 (\x95) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 152 (\x98) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 142 (\x8e) missing from current font.
  plt.tight layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 131 (\x83) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 132 (\x84) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 154 (\x9a) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 134 (\x86) missing from current font.
  plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 137 (\x89) missing from current font.
 plt.tight layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\3484736635.py:21: UserWarning:
Glyph 150 (\xymbox{x96}) missing from current font.
  plt.tight_layout()
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 141 (\x8d) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 130 (\x82) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 135 (\x87) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
```

```
UserWarning: Glyph 156 (\x9c) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 148 (\x94) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 143 (\x8f) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 159 (\x9f) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 129 (\x81) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 145 (\x91) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 128 (\x80) missing from current font.
  fig.canvas.print figure(bytes io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 153 (\x99) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 140 (\x8c) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 139 (\x8b) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 155 (\x9b) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 151 (\x97) missing from current font.
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c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 146 (\x92) missing from current font.
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c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 133 (\x85) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 149 (\x95) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 152 (\x98) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
```

```
UserWarning: Glyph 142 (\x8e) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 131 (\x83) missing from current font.
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```



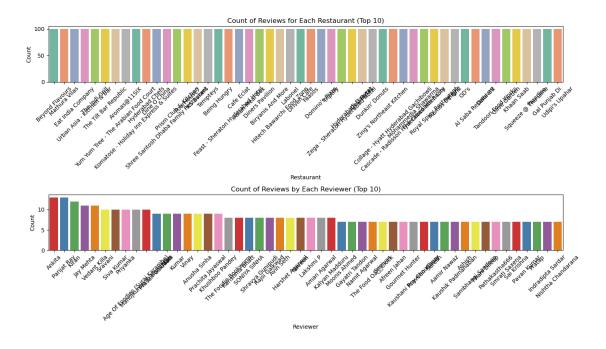
## Plots are very bad to see and understand so an improved version

```
[11]: # Selecting a subset of data for plotting
subset_restaurant = df['Restaurant'].value_counts().head(50) # Select top 10__

restaurants
subset_reviewer = df['Reviewer'].value_counts().head(50) # Select top 10__

reviewers
```

```
# Set up the figure
plt.figure(figsize=(14, 8)) # Adjust figure size as needed
# Plotting the count of reviews for each restaurant
plt.subplot(2, 1, 1)
sns.barplot(x=subset_restaurant.index, y=subset_restaurant.values,_
 ⇔palette='Set2')
plt.title('Count of Reviews for Each Restaurant (Top 10)')
plt.xlabel('Restaurant')
plt.ylabel('Count')
plt.xticks(rotation=45) # Rotate x-axis labels for better readability
# Plotting the count of reviews by each reviewer
plt.subplot(2, 1, 2)
sns.barplot(x=subset_reviewer.index, y=subset_reviewer.values, palette='Set1')
plt.title('Count of Reviews by Each Reviewer (Top 10)')
plt.xlabel('Reviewer')
plt.ylabel('Count')
plt.xticks(rotation=45) # Rotate x-axis labels for better readability
# Adjust layout to prevent overlap
plt.tight_layout()
# Show plots
plt.show()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\4044501812.py:25: UserWarning:
Glyph 128 (\x80) missing from current font.
 plt.tight_layout()
C:\Users\iamim\AppData\Local\Temp\ipykernel_18020\4044501812.py:25: UserWarning:
Glyph 153 (\x99) missing from current font.
 plt.tight_layout()
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 128 (\x80) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
c:\Users\iamim\anaconda3\Lib\site-packages\IPython\core\pylabtools.py:152:
UserWarning: Glyph 153 (\x99) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
```

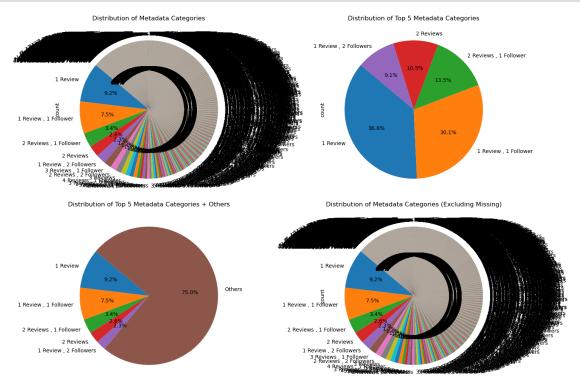


```
[12]: # Analyze different aspects of Metadata column
      metadata_counts = df['Metadata'].value_counts()
      # Plotting multiple pie charts for different analyses
      plt.figure(figsize=(15, 10)) # Adjust figure size as needed
      # First analysis: Distribution of Metadata categories
      plt.subplot(2, 2, 1)
      metadata_counts.plot(kind='pie', autopct='%1.1f%%', startangle=140)
      plt.title('Distribution of Metadata Categories')
      # Second analysis: Distribution of Metadata categories (Top 5)
      plt.subplot(2, 2, 2)
      metadata_counts.head().plot(kind='pie', autopct='%1.1f\%', startangle=140)
      plt.title('Distribution of Top 5 Metadata Categories')
      # Third analysis: Distribution of Metadata categories (Others)
      plt.subplot(2, 2, 3)
      top5_metadata_counts = metadata_counts.head()
      other_count = metadata_counts[5:].sum() # Sum of counts beyond top 5
      other_data = pd.Series([other_count], index=['Others'])
      combined_data = pd.concat([top5_metadata_counts, other_data])
      combined_data.plot(kind='pie', autopct='%1.1f%%', startangle=140)
      plt.title('Distribution of Top 5 Metadata Categories + Others')
      # Fourth analysis: Distribution of Metadata categories excluding missing values
```

```
plt.subplot(2, 2, 4)
metadata_without_missing = df['Metadata'].dropna().value_counts()
metadata_without_missing.plot(kind='pie', autopct='%1.1f%%', startangle=140)
plt.title('Distribution of Metadata Categories (Excluding Missing)')

# Adjust layout to prevent overlap
plt.tight_layout()

# Show plots
plt.show()
```



## improved version of the above plots

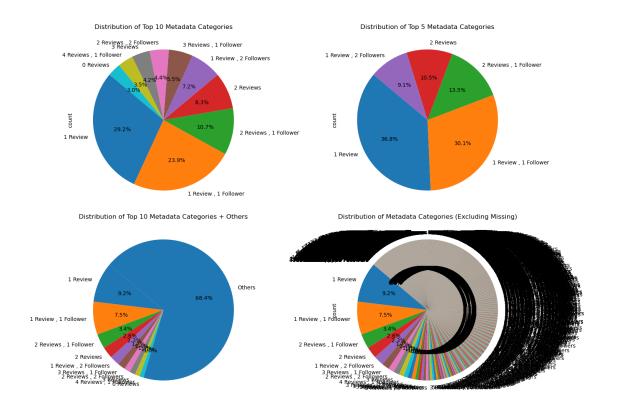
```
[13]: # Analyze different aspects of Metadata column
metadata_counts = df['Metadata'].value_counts()

# Set the number of top categories to display
top_n = 10

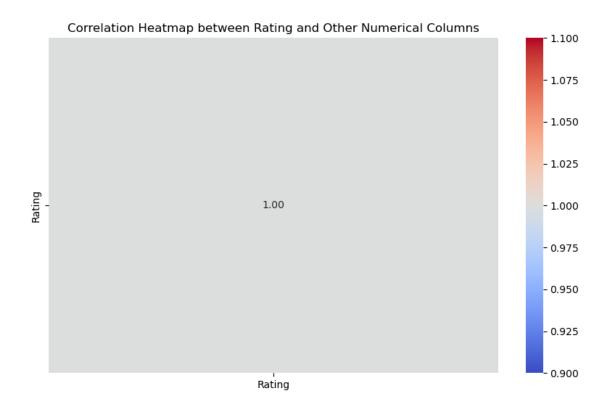
# Filter out missing values for the fourth analysis
metadata_without_missing = df['Metadata'].dropna()

# Get top N most frequent categories
```

```
top_metadata_counts = metadata_counts.head(top_n)
# Plotting multiple pie charts for different analyses
plt.figure(figsize=(15, 10)) # Adjust figure size as needed
# First analysis: Distribution of top N Metadata categories
plt.subplot(2, 2, 1)
top_metadata_counts.plot(kind='pie', autopct='%1.1f%%', startangle=140)
plt.title(f'Distribution of Top {top_n} Metadata Categories')
# Second analysis: Distribution of Metadata categories (Top 5)
plt.subplot(2, 2, 2)
metadata_counts.head().plot(kind='pie', autopct='%1.1f%%', startangle=140)
plt.title('Distribution of Top 5 Metadata Categories')
# Third analysis: Distribution of Metadata categories (Others)
plt.subplot(2, 2, 3)
other_count = metadata_counts[top_n:].sum() # Sum of counts beyond top N
other_data = pd.Series([other_count], index=['Others'])
combined_data = pd.concat([top_metadata_counts, other_data])
combined_data.plot(kind='pie', autopct='%1.1f\%', startangle=140)
plt.title(f'Distribution of Top {top_n} Metadata Categories + Others')
# Fourth analysis: Distribution of Metadata categories excluding missing values
plt.subplot(2, 2, 4)
metadata_without_missing.value_counts().plot(kind='pie', autopct='%1.1f%%',__
 ⇔startangle=140)
plt.title('Distribution of Metadata Categories (Excluding Missing)')
# Adjust layout to prevent overlap
plt.tight_layout()
# Show plots
plt.show()
```



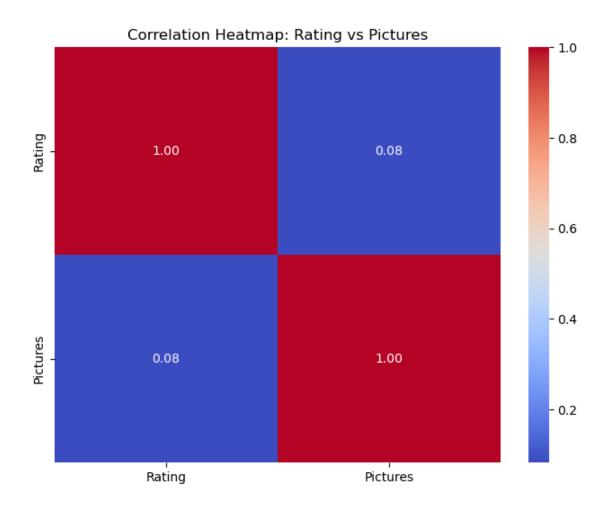




```
[16]: import seaborn as sns

# Select columns for correlation
cols = ['Rating', 'Pictures']

# Plotting the heatmap
plt.figure(figsize=(8, 6))
sns.heatmap(df[cols].corr(), annot=True, cmap='coolwarm', fmt=".2f")
plt.title('Correlation Heatmap: Rating vs Pictures')
plt.show()
```

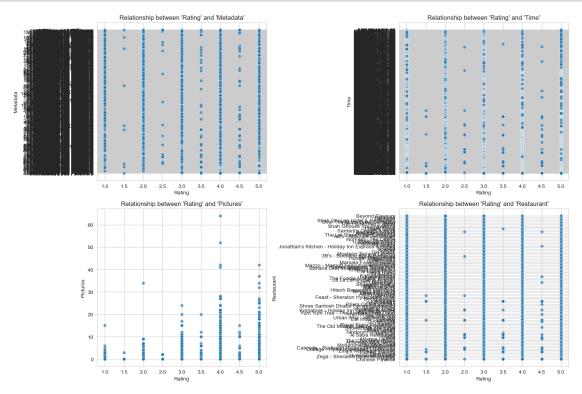


```
import matplotlib.pyplot as plt
import seaborn as sns

# Set the style
sns.set_style("whitegrid")

# Define the layout of subplots
fig, axes = plt.subplots(2, 2, figsize=(15, 10))
axes = axes.flatten()

# Plot scatter plots for each pair of variables
```



```
[19]: import matplotlib.pyplot as plt
import seaborn as sns

# Define the layout of subplots
```

```
fig, axes = plt.subplots(2, 2, figsize=(15, 10))
axes = axes.flatten()

# Create swarm plots for each variable
sns.swarmplot(ax=axes[0], x="Rating", y="Metadata", data=df, alpha=0.7)
axes[0].set_title("Swarm Plot: Rating vs Metadata")

sns.swarmplot(ax=axes[1], x="Rating", y="Time", data=df, alpha=0.7)
axes[1].set_title("Swarm Plot: Rating vs Time")

sns.swarmplot(ax=axes[2], x="Rating", y="Pictures", data=df, alpha=0.7)
axes[2].set_title("Swarm Plot: Rating vs Pictures")

sns.swarmplot(ax=axes[3], x="Rating", y="Restaurant", data=df, alpha=0.7)
axes[3].set_title("Swarm Plot: Rating vs Restaurant")

# Adjust layout
plt.tight_layout()

# Show the plot
plt.show()
```

- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 97.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 94.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 87.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 99.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 99.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 97.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 62.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 55.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 33.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 60.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 89.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 95.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 66.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 42.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 50.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 25.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 75.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 72.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 44.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 16.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 87.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 99.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 55.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 33.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 60.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 62.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 55.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 40.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 42.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 50.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 25.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 75.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 72.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 64.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 37.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 63.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 86.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 84.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 72.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 76.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 57.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 73.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 70.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 73.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 80.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 92.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 20.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 84.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 68.8% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
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  UserWarning:
- 11.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 95.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 47.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

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  UserWarning:
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- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
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  UserWarning:
- 94.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 88.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 85.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 94.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 81.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 81.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 83.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 64.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 37.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 63.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 91.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 86.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 84.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 88.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 72.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 76.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 57.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 73.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 70.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 73.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 91.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 78.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 61.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 70.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 80.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 71.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 92.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 20.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 84.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 58.3% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 68.8% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 80.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 77.8% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 68.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 81.8% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544: UserWarning:
- 78.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 16.7% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 98.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 11.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 95.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 47.4% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 96.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 42.6% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 96.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 71.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

- 95.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 93.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 92.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 91.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 94.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 93.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 94.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
  UserWarning:
- 96.1% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
- c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:

57.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.

c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
UserWarning:

96.8% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.

c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
UserWarning:

48.9% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.

c:\Users\iamim\anaconda3\Lib\site-packages\seaborn\categorical.py:3544:
UserWarning:

98.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.

