

Capstone Project: Exploring Restaurants in Britain

Objectives and Questions of Interest

1. Geo-Exploration of Restaurants Clusters in Britain.
2. Cities of Top-Rated Restaurants in Britain.
3. Where are the Top-Rated Restaurants in London?
4. Where are the Lowest Rated Restaurants in London?
5. Where are the best Indian restaurants in London?

Data Description

- The dataset was part of a Kaggle competition:
- <https://www.kaggle.com/shrutimehta/zomato-restaurants-data>
- The collected data has been stored in the Comma Separated Value file, Zomato.csv. Each restaurant in the dataset is uniquely identified by its Restaurant Id.

Data Description (cont'd)

- Every Restaurant contains the following variables:

Restaurant Id: Unique id of every restaurant across various cities of the world

- Restaurant Name: Name of the restaurant
- Country Code: Country in which restaurant is located
- City: City in which restaurant is located
- Address: Address of the restaurant
- Locality: Location in the city
- Locality Verbose: Detailed description of the locality
- Longitude: Longitude coordinate of the restaurant's location

- Latitude: Latitude coordinate of the restaurant's location
- Cuisines: Cuisines offered by the restaurant
- Average Cost for two: Cost for two people in different currencies
- Currency: Currency of the country
- Has Table booking: yes/no • Has Online delivery: yes/ no
- Is delivering: yes/ no
- Switch to order menu: yes/no
- Price range: range of price of food
- Aggregate Rating: Average rating out of 5
- Rating color: depending upon the average rating color
- Rating text: text on the basis of rating of rating
- Votes: Number of ratings casted by people

Methodology

- K-Means Clustering.
- Exploratory Visualizations.
- Python Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, Folium

Results

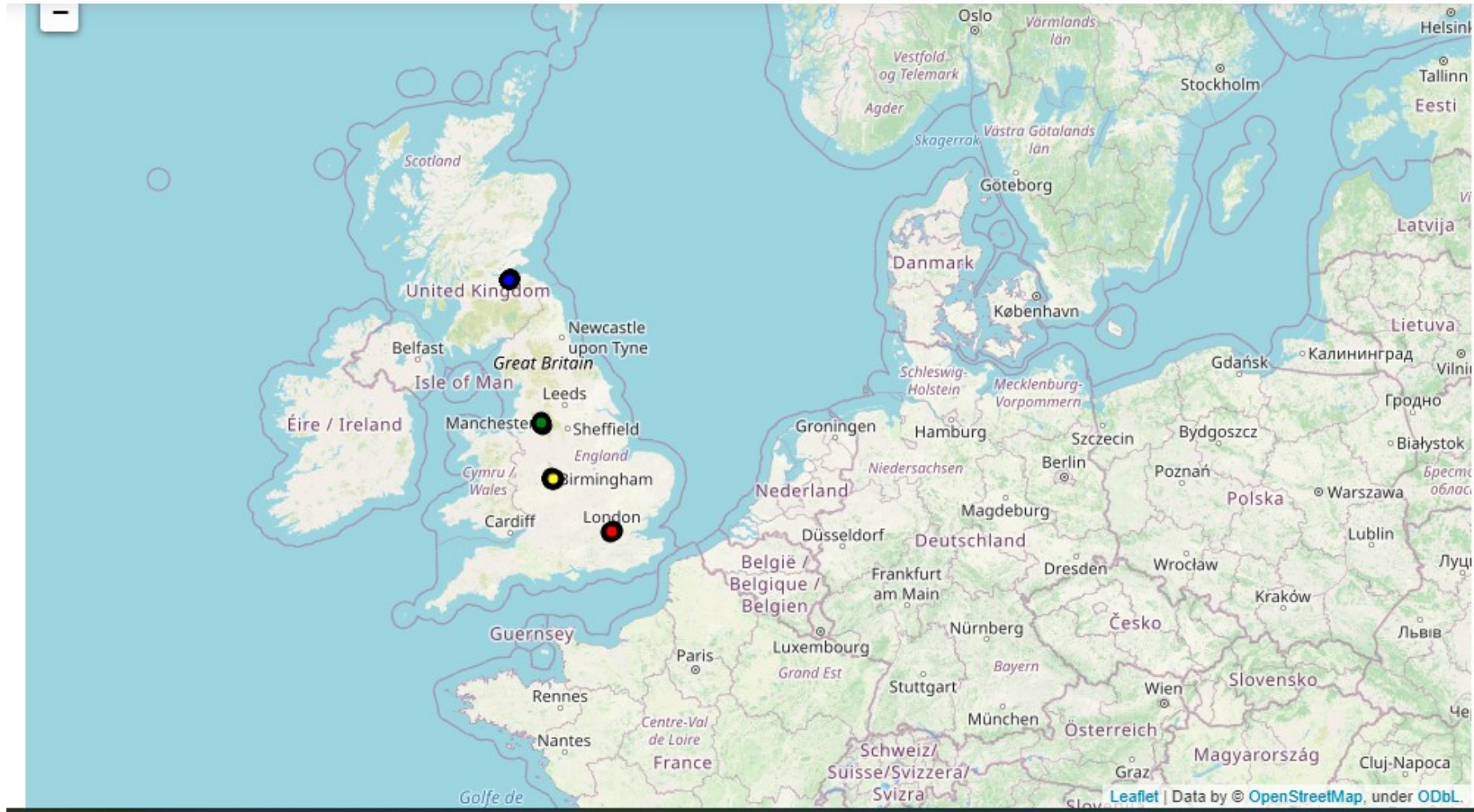


Figure 1: K-Means-based clusters of restaurants based on geographic locations (K=4).

Results (cont'd)

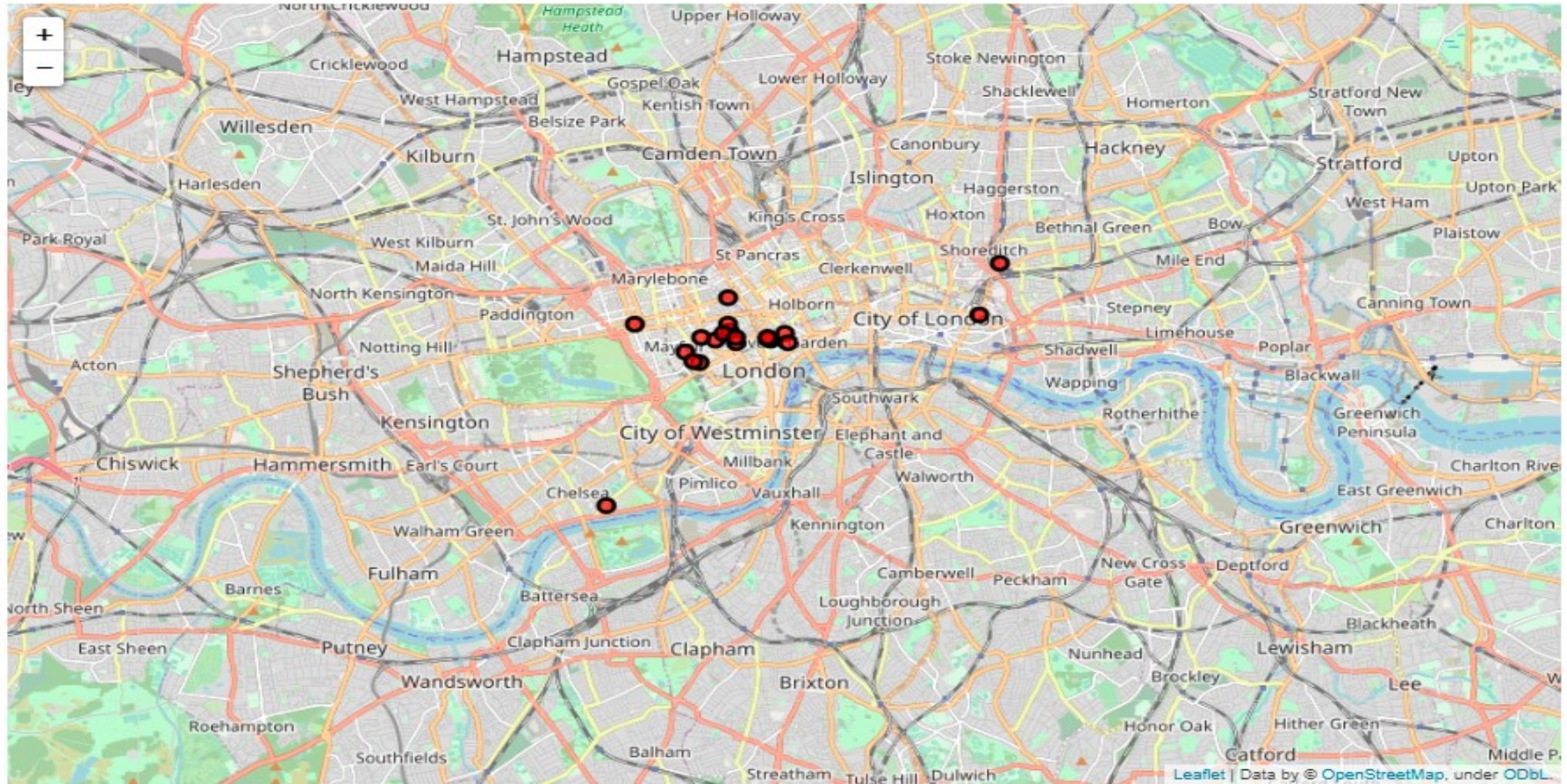


Figure 2: A zoomed-in view of the cluster of restaurants in London.

Results (cont'd)

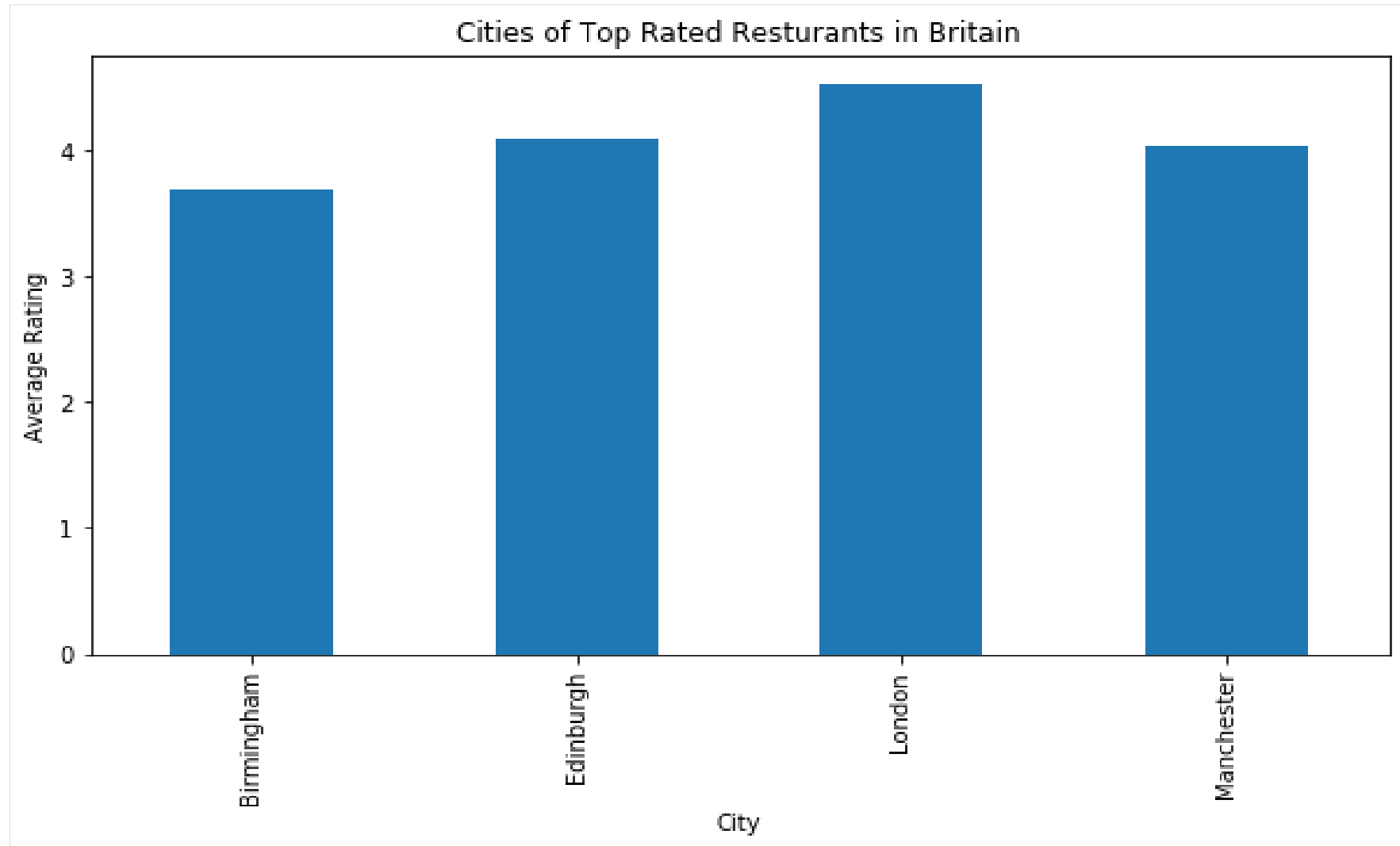


Figure 3: Cities of Top-Rated Restaurants in Britain.

Results (cont'd)



Figure 4: Locations of top-rated restaurants in London.

Results (cont'd)

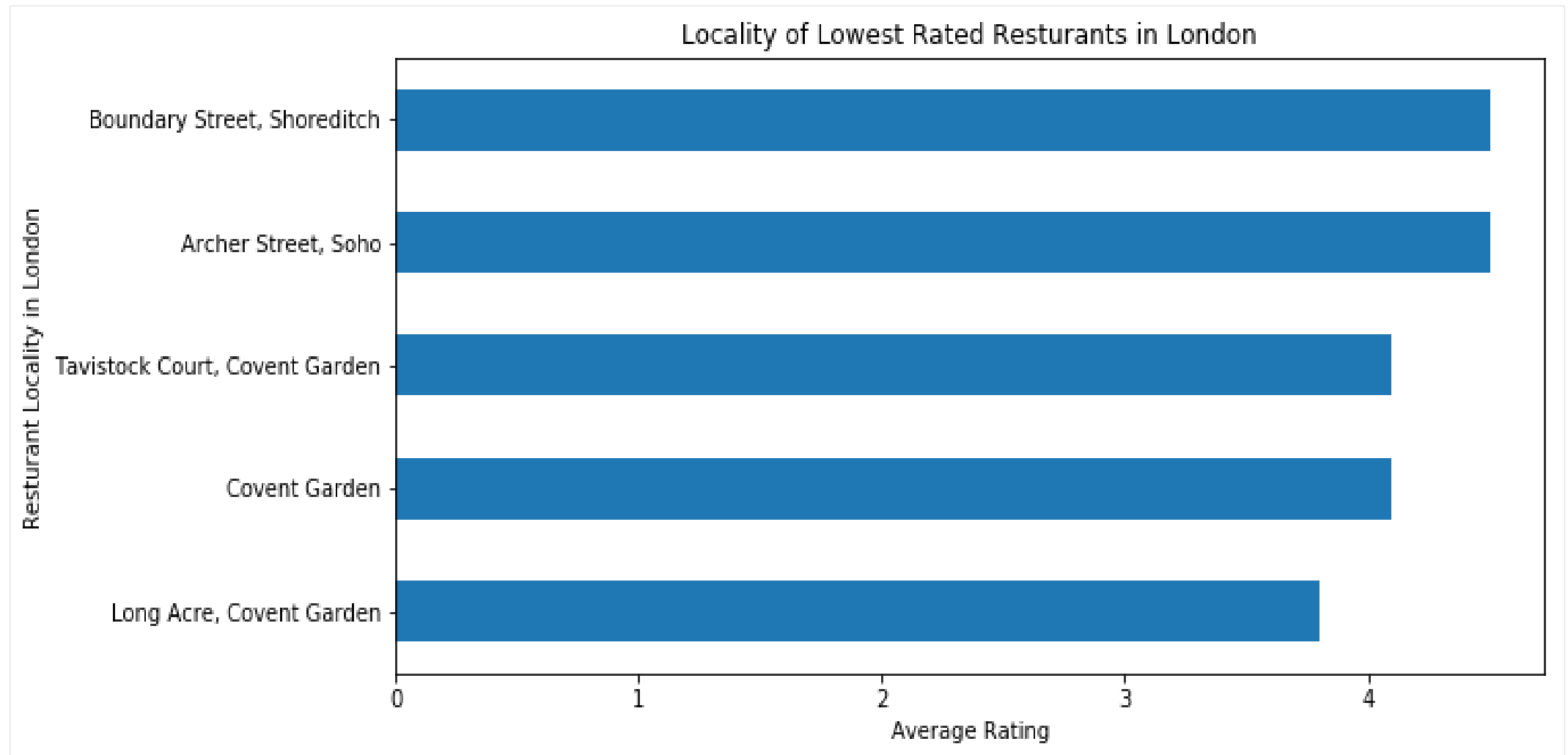


Figure 5: Locations of lowest rated restaurants in London.

Results (cont'd)



Figure 6: Locations of best Indian restaurants in London.

Thank You!