

# Coursera Capstone

## IBM Applied Data Science

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OPENING A NEW INDIAN RESTAURANT IN LONDON CITY

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# Business Problem

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- ❑ The objective of this capstone project is to analyze and select the best locations in the London city to open a new restaurant.
- ❑ What is the best location for an Indian restaurant in London City?
- ❑ In what Neighborhood should I open an Indian restaurant to have the best chance of being successful?

# Data

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## ❑ Data Required

- List of neighbourhoods in London
- Latitude and Longitude coordinates of the neighborhoods
- Venue data related to Indian restaurants.

## ❑ Sources of data

- Wikipedia page of neighbourhoods  
([https://en.wikipedia.org/wiki/List\\_of\\_areas\\_of\\_London](https://en.wikipedia.org/wiki/List_of_areas_of_London))
- A csv file from the dataset with London borough coordinates
- Foursquare API for venue data

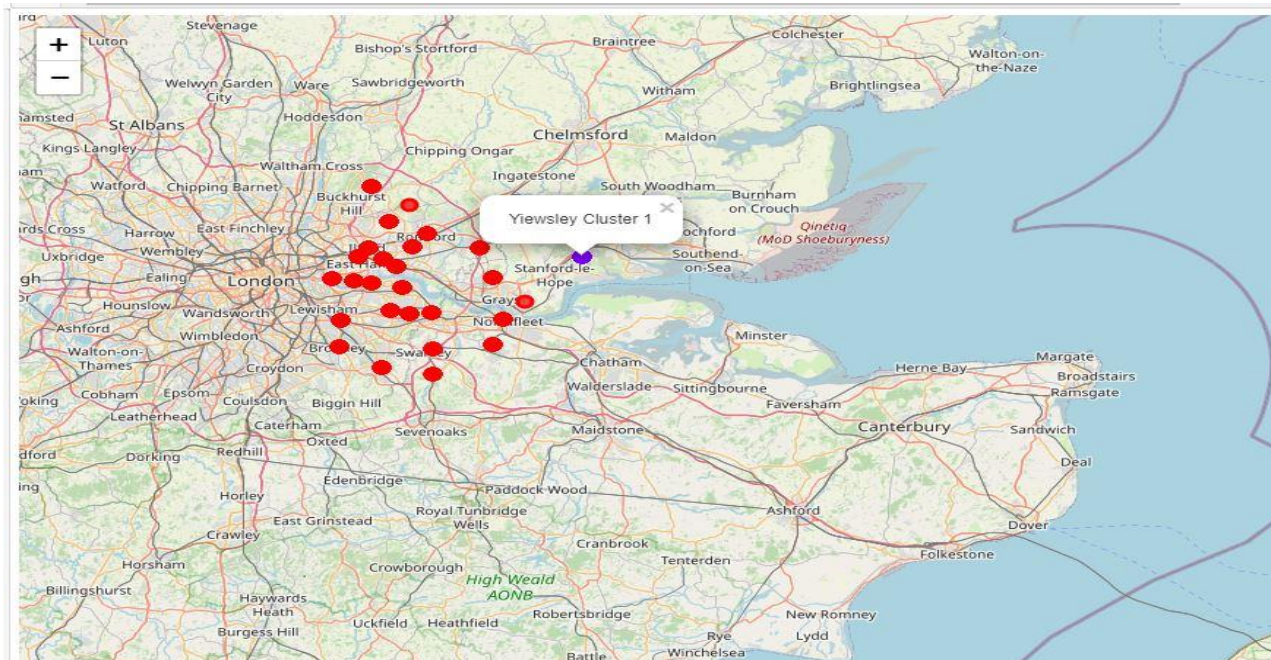
# Approach

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- ❑ Web scraping Wikipedia page of neighborhoods list.
- ❑ Get the coordinates from csv file.
- ❑ Use Foursquare API to get venue data.
- ❑ Group data by neighborhood and taking the mean of the frequency of occurrence of each venue.
- ❑ Filter venue for Indian Restaurant.
- ❑ Perform clustering to find the best k-means
- ❑ Visualize the clusters in the map using Folium

# Results

- Categorize the neighborhood into 2 clusters based on the K value
  - Cluster 0 Neighborhood with high number of Indian restaurants
  - Cluster 1 with very dense number of restaurants



# Discussions

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- ❑ Most of the Indian restaurants are concentrated in central London.
- ❑ Highest number is cluster 0
- ❑ Cluster 1 has very low number in terms no. of Indian restaurants

# Recommendations

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- ❑ Opening a new Indian restaurants in the neighborhoods of cluster 1.
- ❑ You can also consider the neighborhoods near to Heathrow airport as there is a major chance in the business

# Conclusion

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- ❑ Answer to the business question: the neighborhoods of cluster 1 is the most preferred locations
- ❑ Findings of this project may help stakeholders to capitalize on the opportunities of high potential locations avoiding the crowded areas.
- ❑ As a final note, all of the above analyses are depended on the adequacy and accuracy of Four-Square data. A more comprehensive analysis and future work would need to incorporate data from other external databases.



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Thank you

