Cuisine in London

Best location for new restaurant
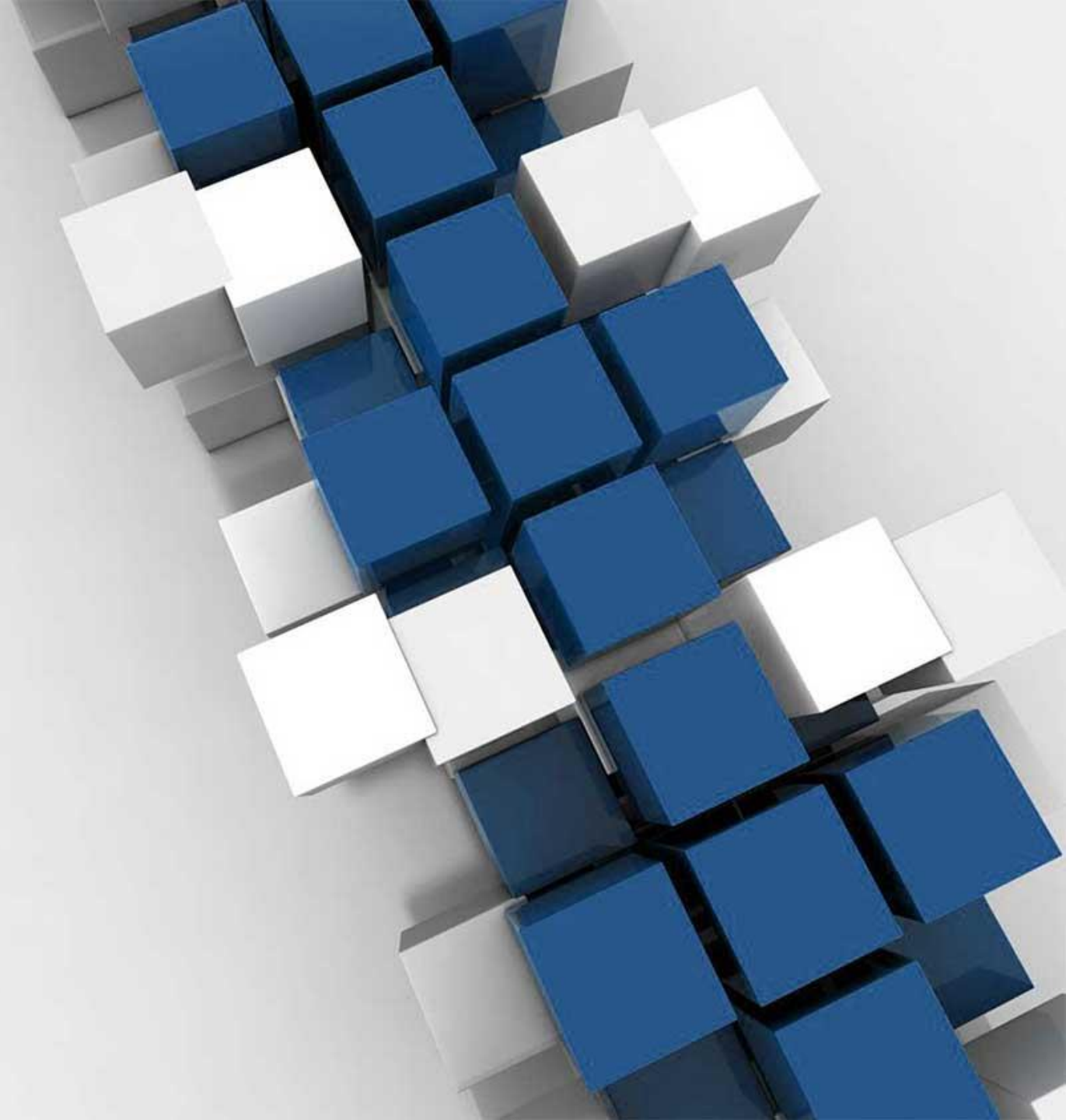
Table of Contents
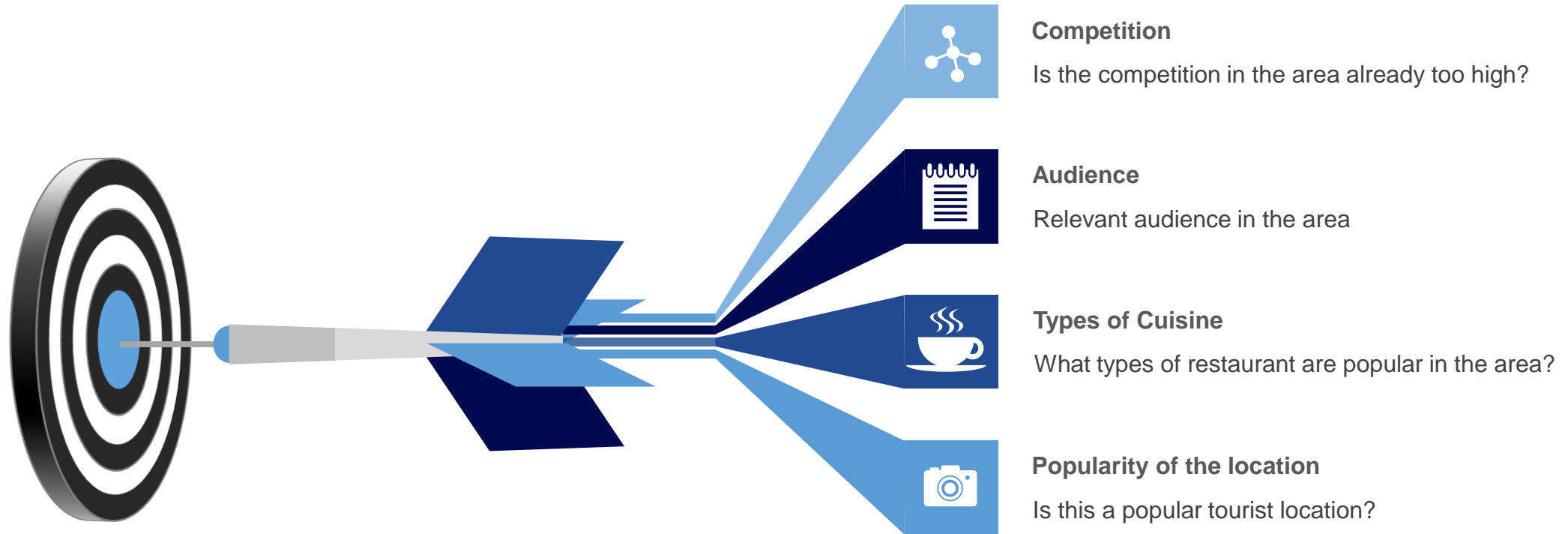
Data

Scrape: https://en.wikipedia.org/wiki/List_of_London_boroughs
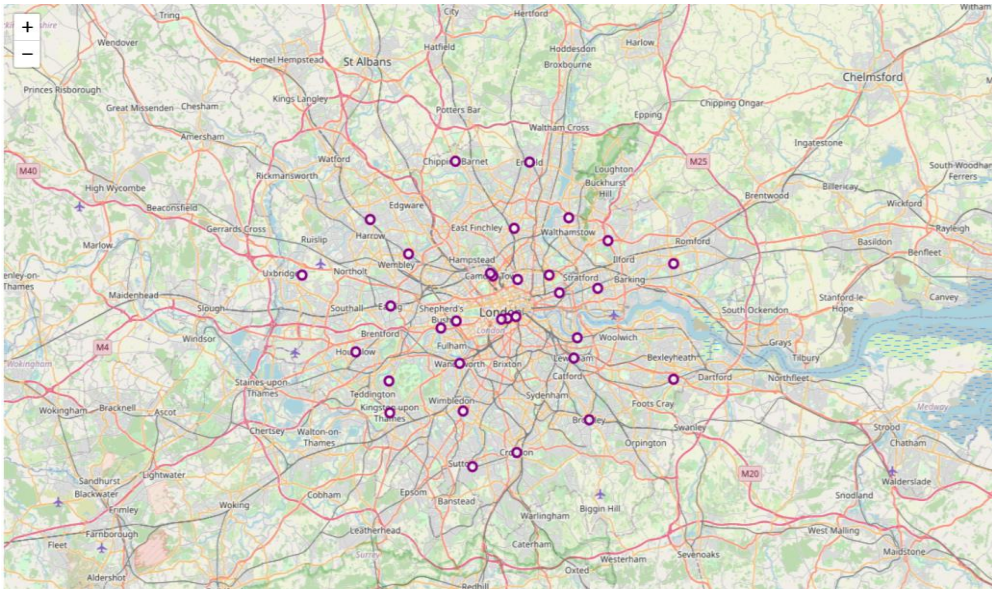
1. Borough names

Get the names from the Wikipedia webpage

2. Coordinates

Get the coordinates using *foursquare api*

Methodology

1. London map with boroughs coordinates

2. Extracting local venues

Foursquare api – 1,500 m. radius
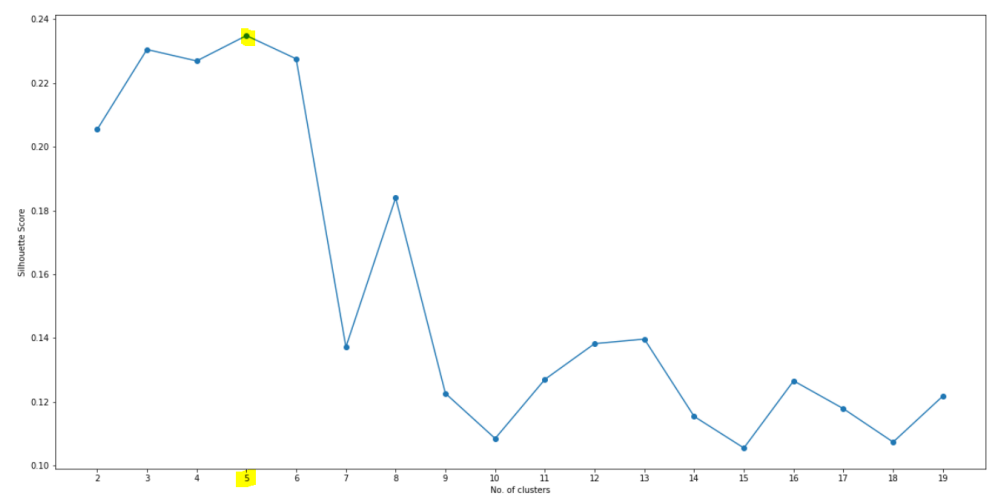
2,404 different venues

3. Analysis and Filtering

540 food venues/restaurants
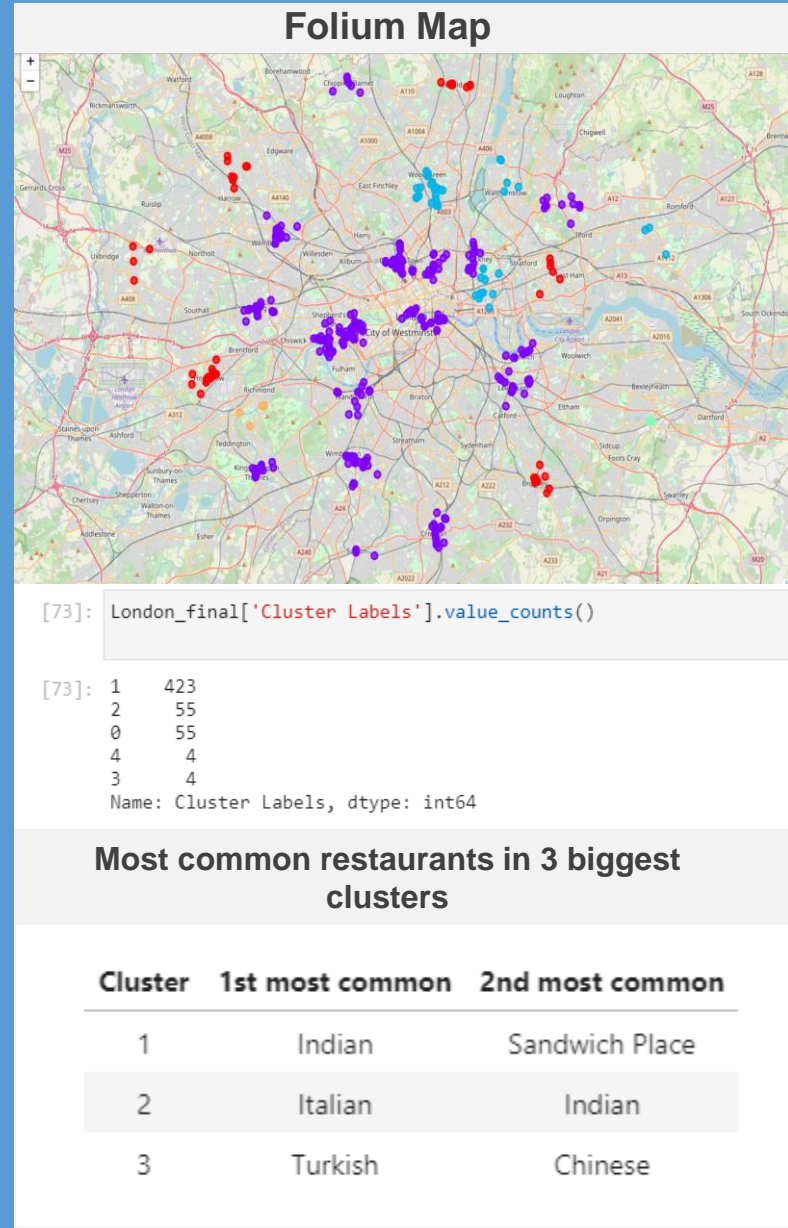
59 unique venue categories

K-Means clustering

1. Silhouette Score – best k=5

2. Finding top 5 most common restaurants

	Borough	Borough Latitude	Borough Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
1	Barking and Dagenham	51.554117	0.150504	Lara Grill	51.562445	0.147178	Turkish Restaurant	2	Restaurant	Turkish Restaurant	Chinese Restaurant	Vietnamese Restaurant	Indian Restaurant
9	Barking and Dagenham	51.554117	0.150504	The Pipe Major	51.545795	0.165834	Restaurant	2	Restaurant	Turkish Restaurant	Chinese Restaurant	Vietnamese Restaurant	Indian Restaurant
19	Barking and Dagenham	51.554117	0.150504	New China Gold	51.561269	0.141839	Chinese Restaurant	2	Restaurant	Turkish Restaurant	Chinese Restaurant	Vietnamese Restaurant	Indian Restaurant
32	Barnet	51.653090	-0.200226	Spizzico	51.656600	-0.201802	Italian Restaurant	1	Fast Food Restaurant	Sandwich Place	Seafood Restaurant	Indian Restaurant	Restaurant
37	Barnet	51.653090	-0.200226	Dudley's Pancake House	51.652965	-0.199625	Restaurant	1	Fast Food Restaurant	Sandwich Place	Seafood Restaurant	Indian Restaurant	Restaurant

Folium Map

```
[73]: London_final['Cluster Labels'].value_counts()

[73]: 1     423
      2      55
      0      55
      4       4
      3       4
      Name: Cluster Labels, dtype: int64
```

Most common restaurants in 3 biggest clusters

Cluster	1st most common	2nd most common
1	Indian	Sandwich Place
2	Italian	Indian
3	Turkish	Chinese

Results – Folium Map, Table of Results

Results

Conclusions

Now we can decide: to open a new restaurant according to popular places or missing types of restaurants

Neighborhood coordinates (not only boroughs) would help us receive more accurate clustering

Pros

We see specific clustering according to the kind of restaurants.

Cons

The analysis can be widened to other fields like: crime rate, kind of population in the specific borough etc.