

# IBM Applied Data Science Capstone Project (Week 4 Report)

## Topic - Setting up a coffee shop in Mumbai, Maharashtra

### Data Section

1. List of neighborhoods in Mumbai

Data source: The dataset was obtained from Wikipedia:

[https://en.wikipedia.org/wiki/List\\_of\\_neighbourhoods\\_in\\_Mumbai](https://en.wikipedia.org/wiki/List_of_neighbourhoods_in_Mumbai)

Data was scraped from the web using BeautifulSoup and extracted into a dataframe.

2. The location co-ordinates (Latitudes and Longitudes)

Data Source: The data was already present in the dataset extracted from Wikipedia.

	Area	Location	Latitude	Longitude
0	Amboli	Andheri, Western Suburbs	19.129300	72.843400
1	Chakala\Andheri,	Western Suburbs	19.111388	72.860833
2	D.N. Nagar	Andheri, Western Suburbs	19.124085	72.831373
3	Four Bungalows	Andheri, Western Suburbs	19.124714	72.827210
4	Lokhandwala	Andheri, Western Suburbs	19.130815	72.829270
5	Marol	Andheri, Western Suburbs	19.119219	72.882743
6	Sahar	Andheri, Western Suburbs	19.098889	72.867222
7	Seven Bungalows	Andheri, Western Suburbs	19.129052	72.817018
8	Versova	Andheri, Western Suburbs	19.120000	72.820000
9	Mira Road	Mira-Bhayandar, Western Suburbs	19.284167	72.871111

3. The venues present in Mumbai

Data Source: Foursquare API

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Amboli	19.129300	72.843400	5 Spice , Bandra	19.130421	72.847206	Chinese Restaurant
1	Amboli	19.129300	72.843400	Cafe Arfa	19.128930	72.847140	Indian Restaurant
2	Amboli	19.129300	72.843400	Subway	19.127860	72.844461	Sandwich Place
3	Amboli	19.129300	72.843400	Cafe Coffee Day	19.127748	72.844663	Coffee Shop
4	Amboli	19.129300	72.843400	V33	19.129068	72.843670	Gym
5	Amboli	19.129300	72.843400	Delhi Zaika	19.132159	72.844406	Halal Restaurant
6	Amboli	19.129300	72.843400	Nukkad Food Bistro	19.126058	72.846618	Fast Food Restaurant
7	Chakala\Andheri,	19.111388	72.860833	Courtyard Mumbai International Airport	19.114167	72.864131	Hotel
8	Chakala\Andheri,	19.111388	72.860833	Faaso's	19.113938	72.862330	Fast Food Restaurant
9	Chakala\Andheri,	19.111388	72.860833	Cafe Coffee Day	19.112272	72.861106	Café