

# Battle of Neighbourhoods : Mumbai

# Introduction

- In India, many working professionals who hail from different parts of the country, have to shift to metro cities for work and this project aims to help these people in exploring the neighborhoods so that they can make wise choice while relocating. Many factors should be looked at when exploring neighborhoods such as Super market, medical shops, grocery shops, mall, theatre, hospital, like minded people, ease of accessing to Cafe, etc.
- This Project aim to create an analysis of features for a people migrating to Mumbai to search a best neighborhood as a comparative analysis between neighborhoods.

# Data

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

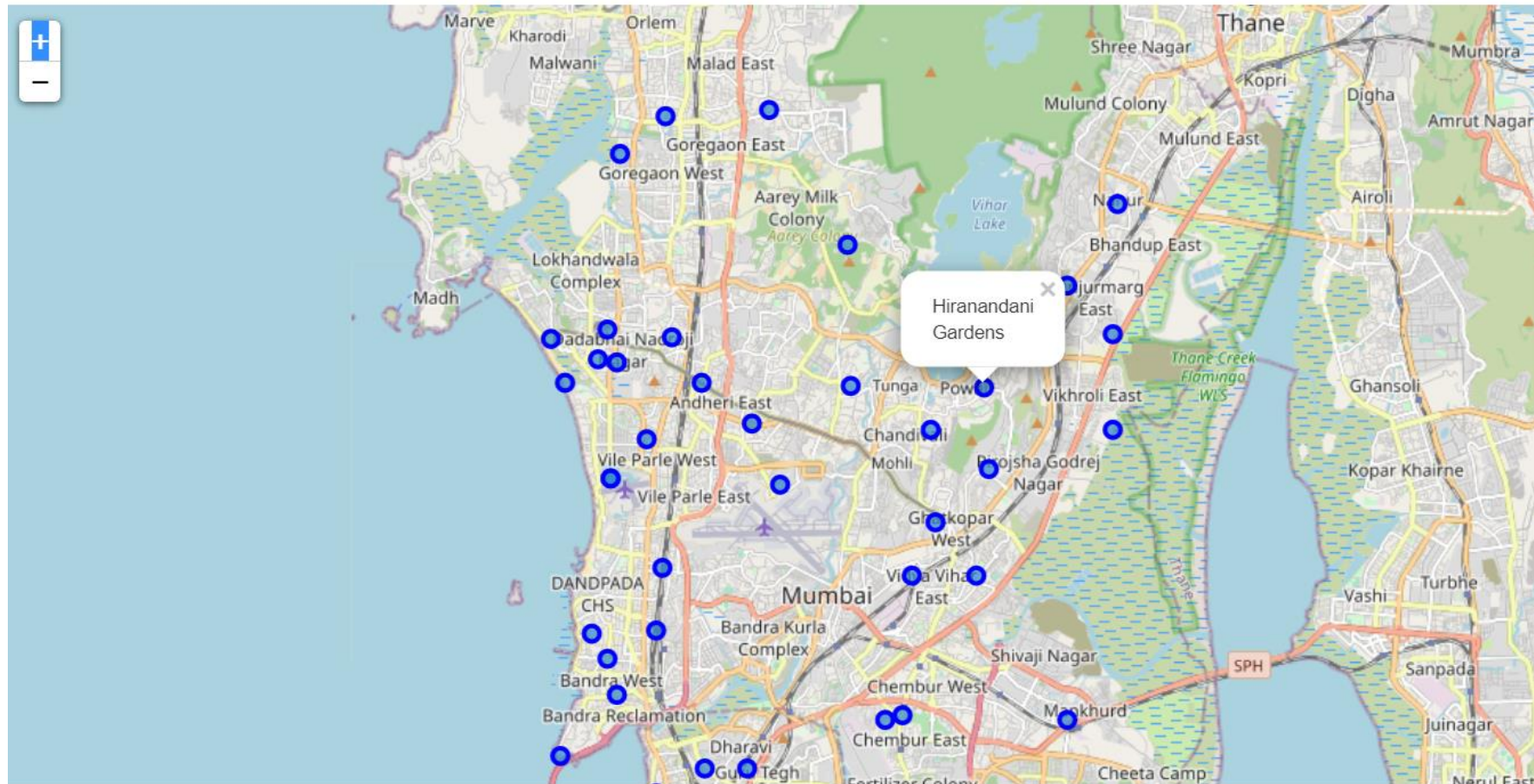
- Will use Mumbai Areas table which can be scraped from above link. Dataset consists of latitude and longitude, Area and Location.

## **Foursquare API Data:**

- The data retrieved from Foursquare contained information of venues within a specified distance of the longitude and latitude of the postcodes. The information obtained per venue as follows:

1. Neighborhood
2. Neighborhood Latitude
3. Neighborhood Longitude
4. Venue
5. Name of the venue e.g. the name of a store or restaurant
6. Venue Latitude
7. Venue Longitude
8. Venue Category

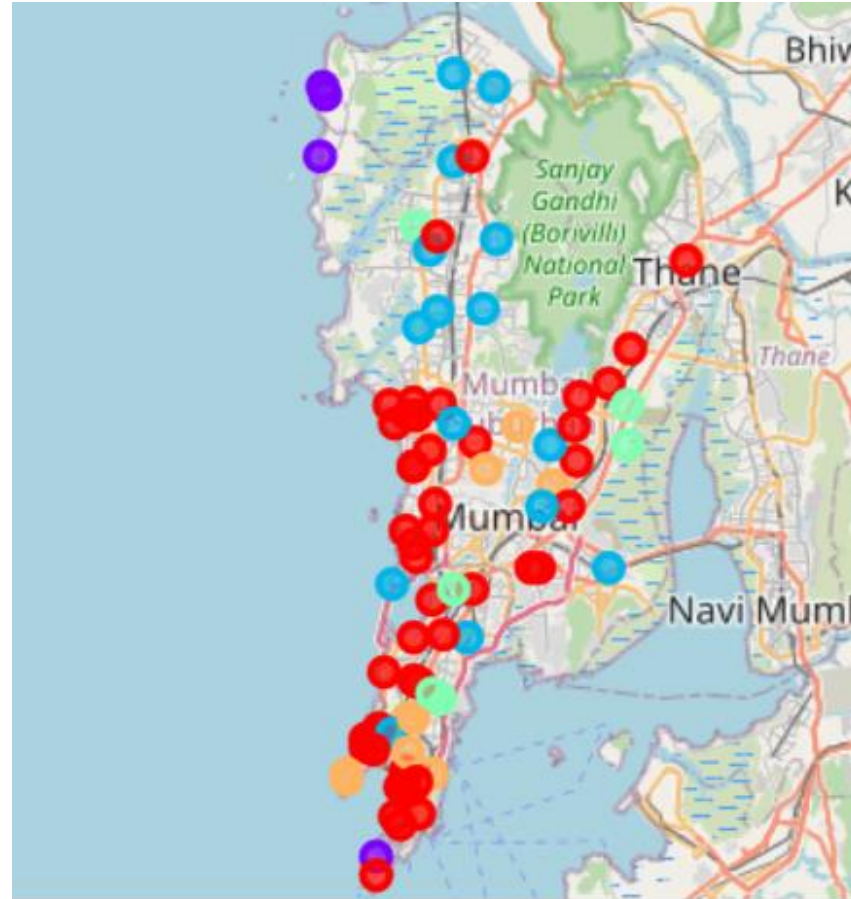
# Map of Neighbourhoods in Mumbai



# Top Nearby venues in each Neighbourhood

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Agripada	Indian Restaurant	Coffee Shop	Japanese Restaurant	Racetrack	Restaurant	Bank	Bakery	Electronics Store	Flea Market	Fish Market
1	Altamount Road	Café	Bakery	Sandwich Place	Coffee Shop	Chinese Restaurant	Indian Restaurant	Snack Place	Park	Pizza Place	Electronics Store
2	Amboli	Coffee Shop	Pizza Place	Asian Restaurant	Indian Restaurant	Bar	Italian Restaurant	Fast Food Restaurant	Electronics Store	Chinese Restaurant	Sandwich Place
3	Amrut Nagar	Indian Restaurant	Café	Clothing Store	Diner	Pizza Place	Chinese Restaurant	Lounge	Fast Food Restaurant	Gourmet Shop	Food & Drink Shop
4	Asalfa	Convenience Store	Indian Restaurant	Bus Station	Donut Shop	Yoga Studio	Event Space	Flower Shop	Flea Market	Fish Market	Fish & Chips Shop

# Clustering of Neighbourhoods



# Conclusion

- In this project, using k-means cluster algorithm I separated the neighborhood into five different clusters which have very-similar neighborhoods around them.
- So a person shifting to Mumbai and searching for a place can get an idea looking at the clusters about which neighborhoods offer similar nearby facilities and then he can decide based on budget and other details where he wants to reside.

THANK YOU