



EXPLORING PLACES IN MUMBAI

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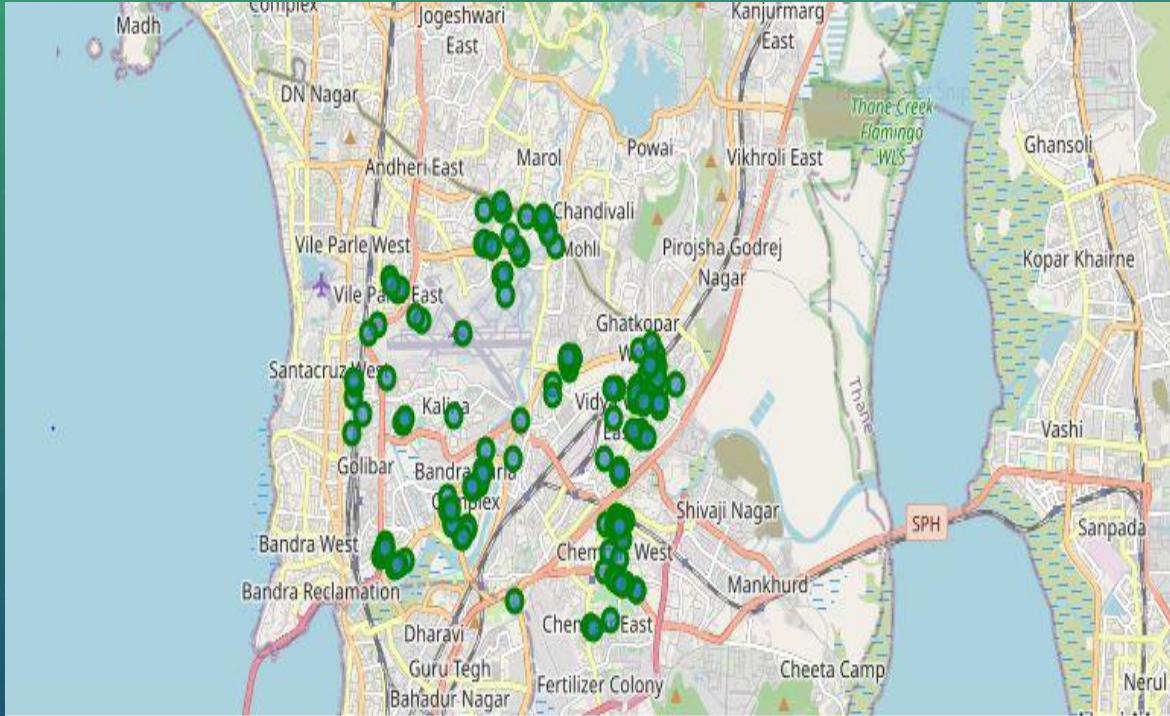
EXPLORING FOOD VENUES

- Whenever a person searches for a venue in a new city, they're highly interested in the best places that the city has to offer.
- The person might want to know how good a given restaurant is .
- A restaurant could be chosen considering the following characteristics:
 - Location
 - User Raings
 - Price Range
 - Category
- Combining the location of the venues in the city with their price and rating information would surely help visitors in a city make better informed decisions about the places they should visit.

DATA COLLECTION

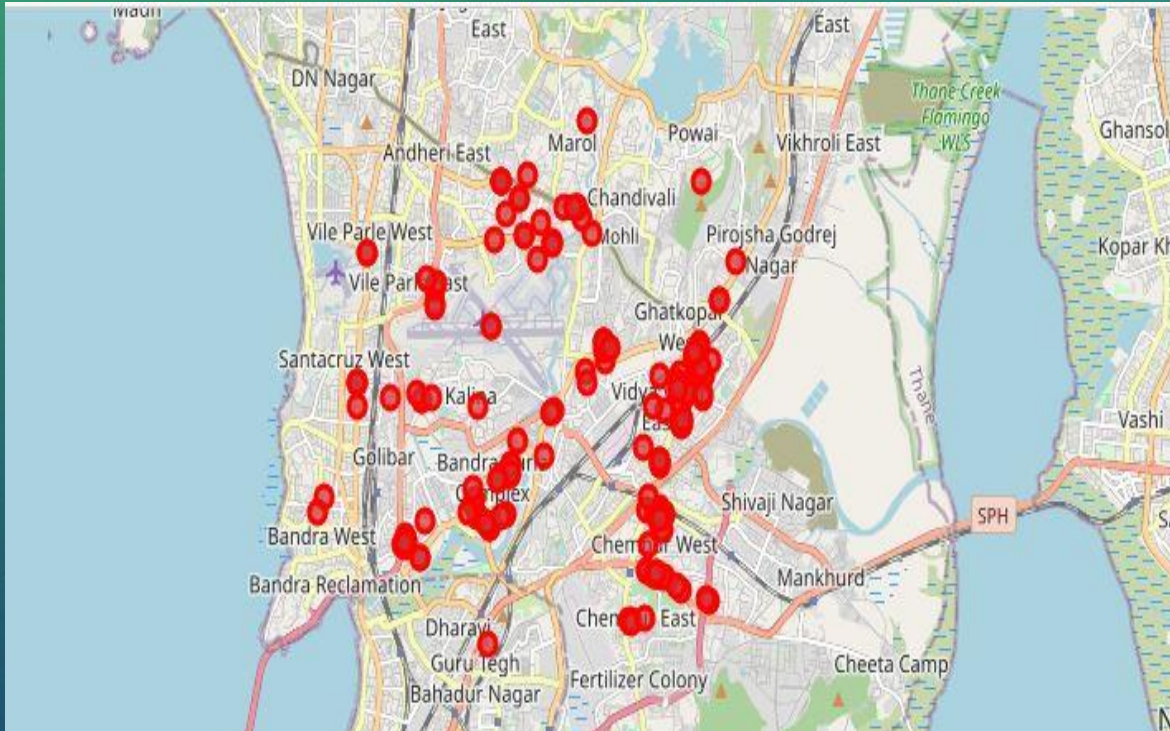
- The data of the various restaurants in Mumbai was fetched from the Foursquare API and the Zomato API within a range of 4 km.
- These APIs store the information about the Restaurants in Mumbai.
- The APIs are open for developers for using these APIs for Building Various Projects.
- A map of the venues with specific color attributes will be plotted to highlight their position, and information about these venues.
- This enables any visitor to take a quick glance and decide what place to visit.

FOURSQUARE API DATA



- Clusters were found near Ghatkopar, Chembur, Marol Naka, Bandra Complex and Santa Cruz.

ZOMATO API DATA



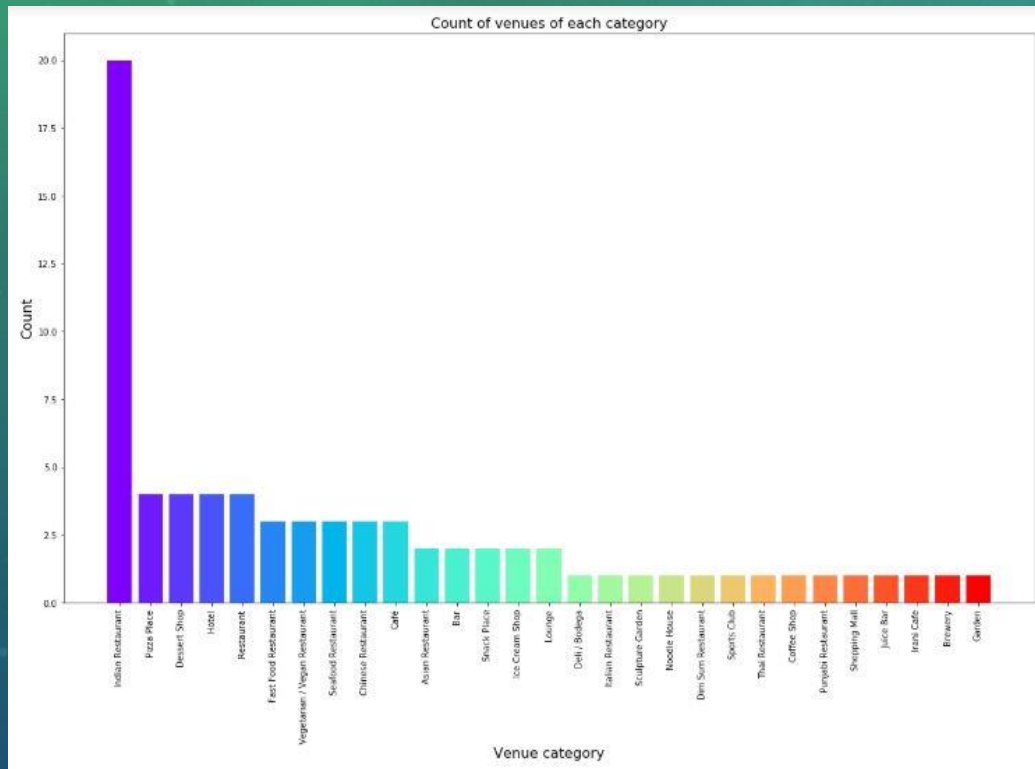
- Clusters were found near Ghatkopar, Chembur, Marol Naka and Bandra Complex.

DATA AGGREGATED FROM BOTH APIS

	categories	venue	latitude	longitude	price_range	rating	address	average_price
0	Hotel	Tuskers - Sofitel	19.0673	72.8692	4.0	4.0	Sofitel Hotel, C 57, Bandra Kurla Complex, Mumbai	1650.0
1	Hotel	O22 - Trident	19.0672	72.8675	4.0	4.0	Trident Hotel, C 56, G Block, Bandra Kurla Com...	2000.0
2	Indian Restaurant	Masala Library	19.0690	72.8696	4.0	4.4	Ground Floor, First International Financial Ce...	2500.0
3	Ice Cream Shop	Natural Ice Cream	19.0776	72.8628	1.0	4.1	3, Gokul Harmony, Kalina Market, Sunder Nagar,...	150.0
4	Deli / Bodega	Smoke House Deli	19.0688	72.8695	4.0	4.3	3A, Ground Floor, 1st International Financial ...	1250.0

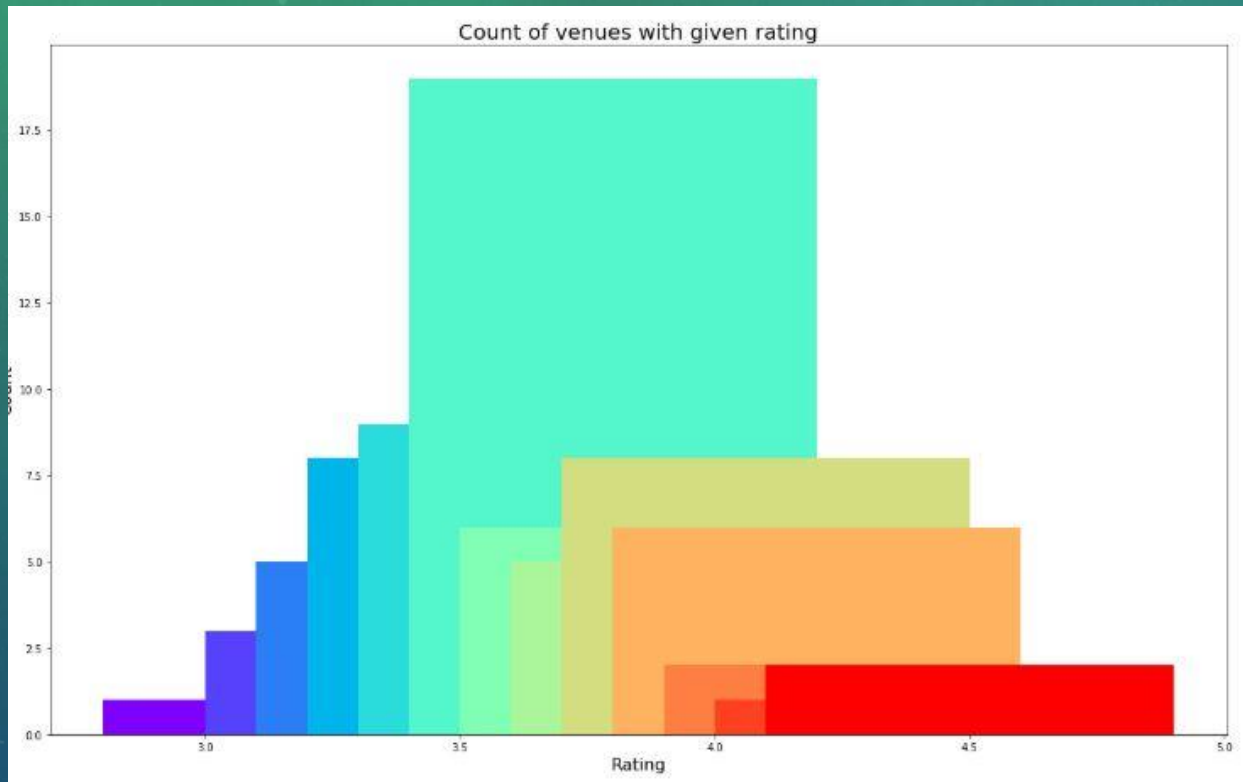
This is the data of the first five places which is being used in this Project.

CATEGORY OF VENUES



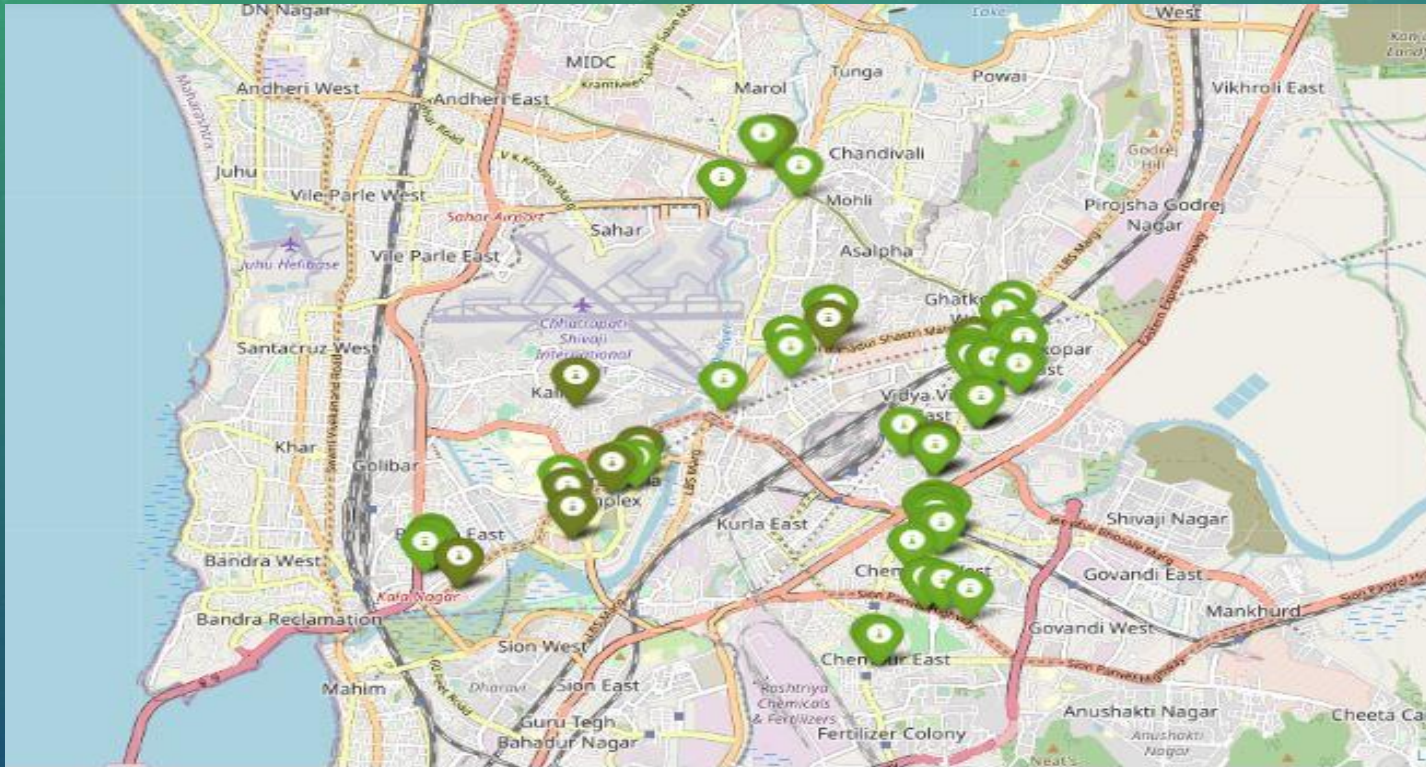
- The Major Category of the Venues in Mumbai is Indian Restaurants.

RATING AND COUNT OF VENUES



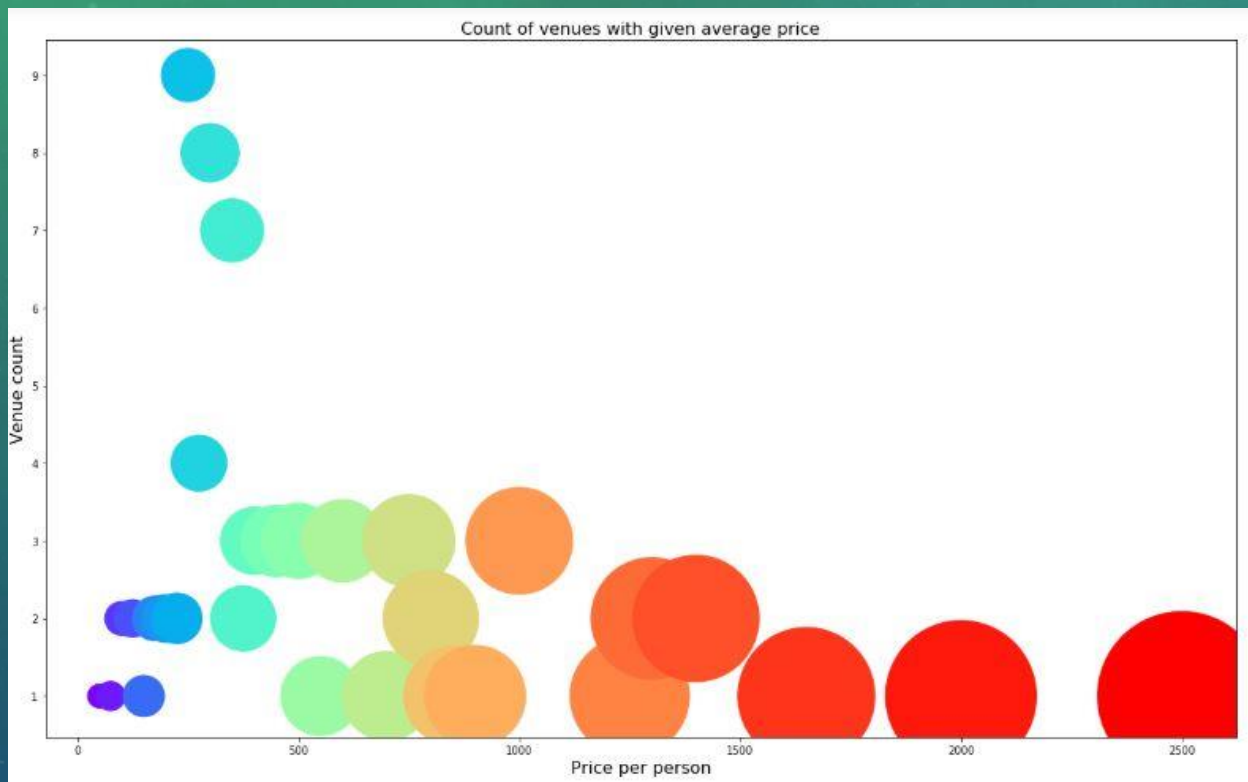
- The average rating of the Restaurants in Mumbai is 3.75.

PLOT OF VENUES WITH DIFFERENT RATINGS



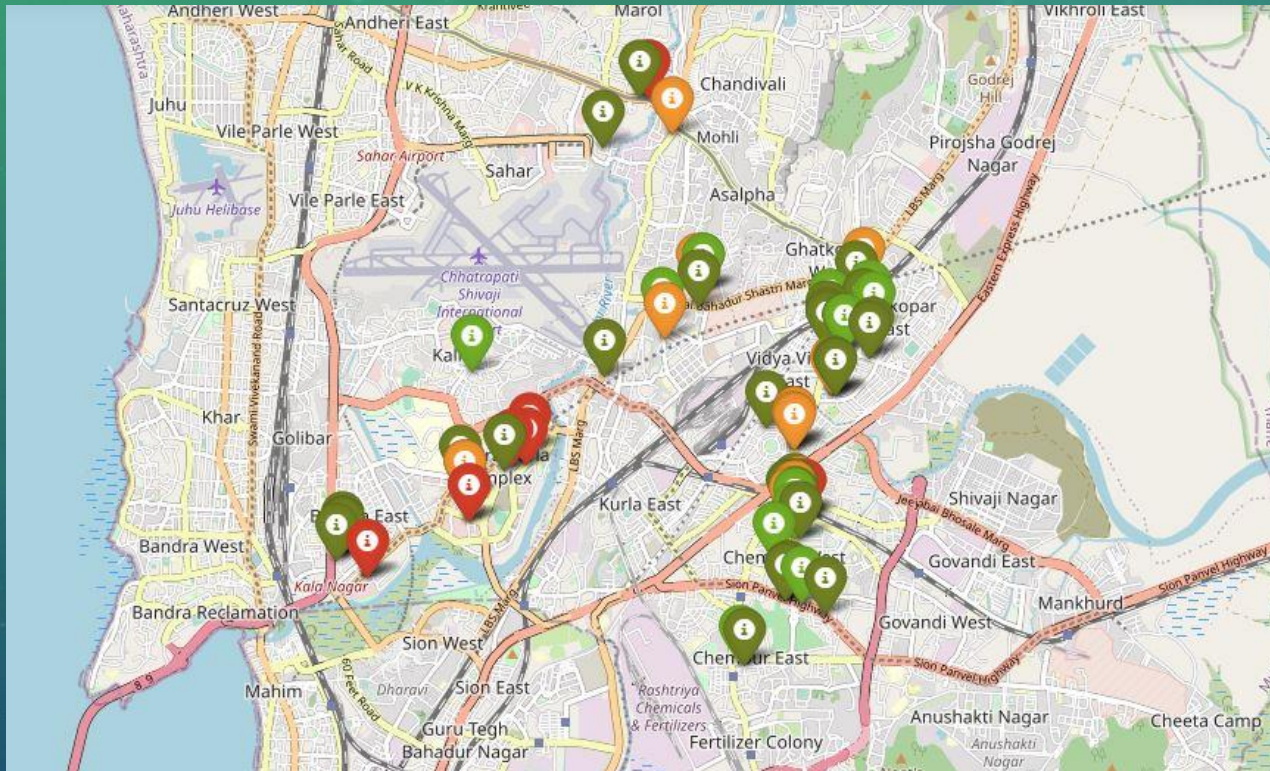
Most of the Restaurants have Ratings from 3 to 4.

PRICE PER PERSON AND COUNT OF VENUES



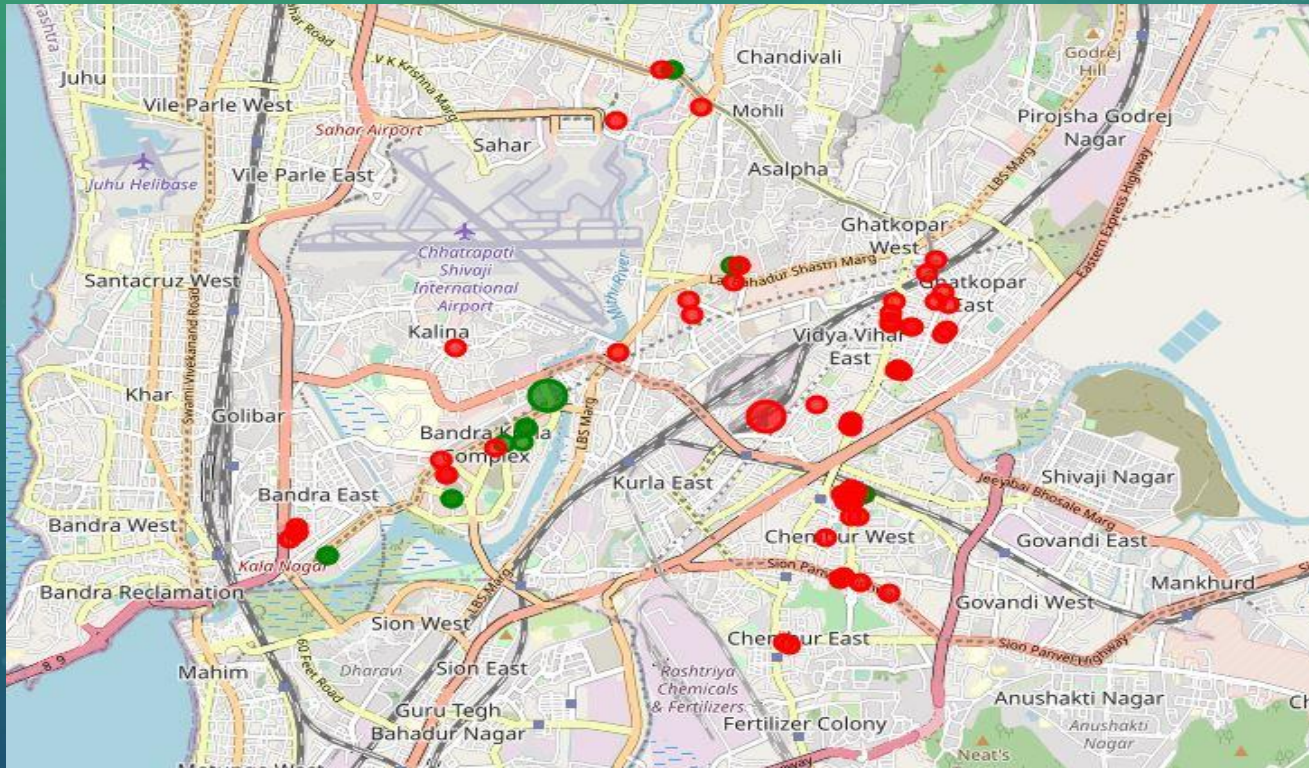
- The most of the Restaurants in Mumbai have price range from Rs 500 to Rs 1000.

PLOT OF VENUES WITH DIFFERENT PRICES



Most of the Restaurants have
Price Range from Rs 500 to
Rs 1000.

CLUSTER OF VENUES



In figure, we see the two clusters:

1. The first cluster (red) is spread across the whole city and includes the majority venues. These venues have mean price range of 2.02 and rating spread around 3.79.
2. The second cluster (green) is very sparsely spread and has very limited venues. These venues have mean price range of 3.92 and rating spread around 4.17.

CONCLUSION

The purpose of this project was to explore the places that a person visiting Mumbai could visit. The venues have been identified using Foursquare and Zomato API and have been plotted on the map. The map reveals that there are three major areas a person can visit: Ghatkopar, Bandra Complex and Chembur. Based on the visitor's venue rating and price requirements, he/she can choose amongst the three places.