

# **Explore Zomato Restaurants dataset in the city of Ahmedabad**

**-By Jogi Goghari , Ahmedabad, Gujarat, India**

# Introduction

Ahmedabad is the city of peace loving people, it is one of the metro city of India and more addition it is economic capital of Gujarat state.

Ahmedabad is also name as one of the Heritage city of India

The official language of Ahmedabad and the one that is most widely spoken is Gujarati.

However, Hindi and English are also spoken as a formal language within businesses and government agencies.

Over last decades it is continuously grow because of the city's important role in government and commercial business.

With its diverse culture, comes diverse food items.

There are many restaurants in New Delhi City, each belonging to different categories like *Gujarati*, *Panjabi*, *South Indian*, *Chinese*, *Italian*, *French* etc. So as part of this project, we will list and visualise all major parts of Ahmedabad City.

# Objectives

## **Questions that can be asked using the above mentioned datasets**

- What is best location in Ahmedabad City for Café ?
- Which areas have large number of Café Market ?
- Which all areas have high and less number of restaurant ?
- Which is the best place to stay if I prefer Café ?
- What places are have best restaurant in Ahmedabad?

# Data

For this project we need the following data :

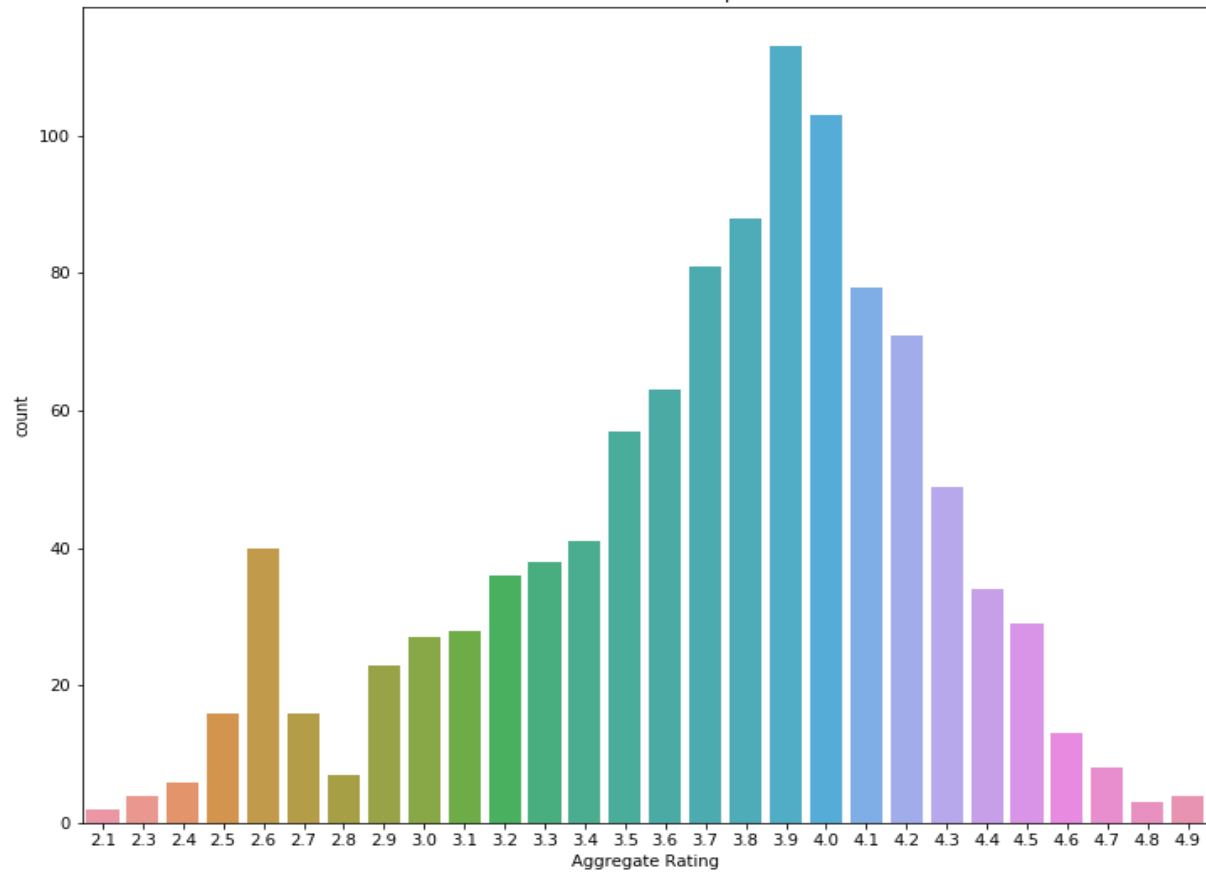
- Ahmedabad Restaurants data that contains list Locality, Restaurant name, Rating along with their latitude and longitude.
- Data source : [Zomato kaggle dataset](#)
- Description : This data set contains the required information. And we will use this data set to explore various locality of new Ahmedabad city.
- Nearby places in each locality of new Ahmedabad city.
- Data source : [Foursquare API](#)
- Description : By using this api we will get all the venues in each neighborhood.

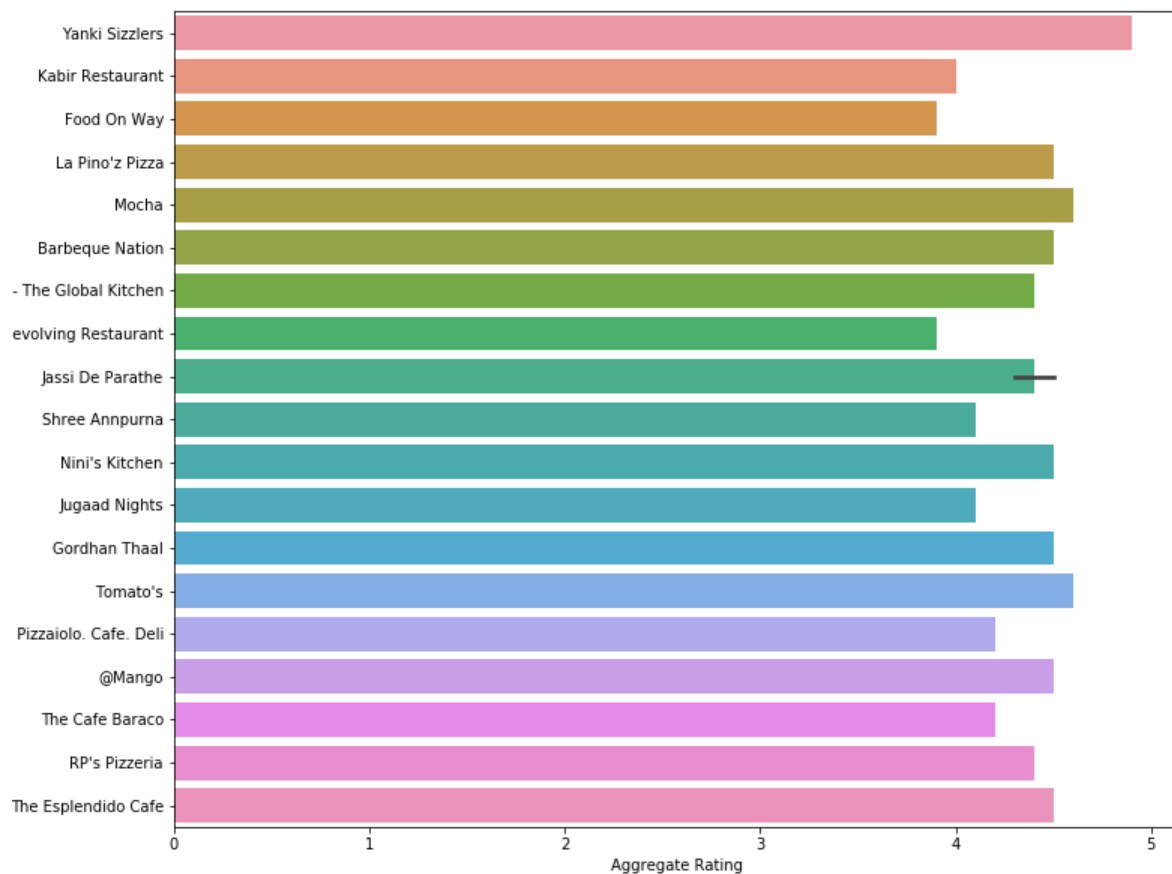
# Approach

- Collect the new delhi city data from [Zomato kaggel dataset](#)
- Using FourSquare API we will find all venues for each neighborhood.
- Filter out all venues that are nearby by locality.
- Using aggregative rating for each restaurant to find the best places.
- Visualize the Ranking of neighborhoods using folium library(python)

# Results

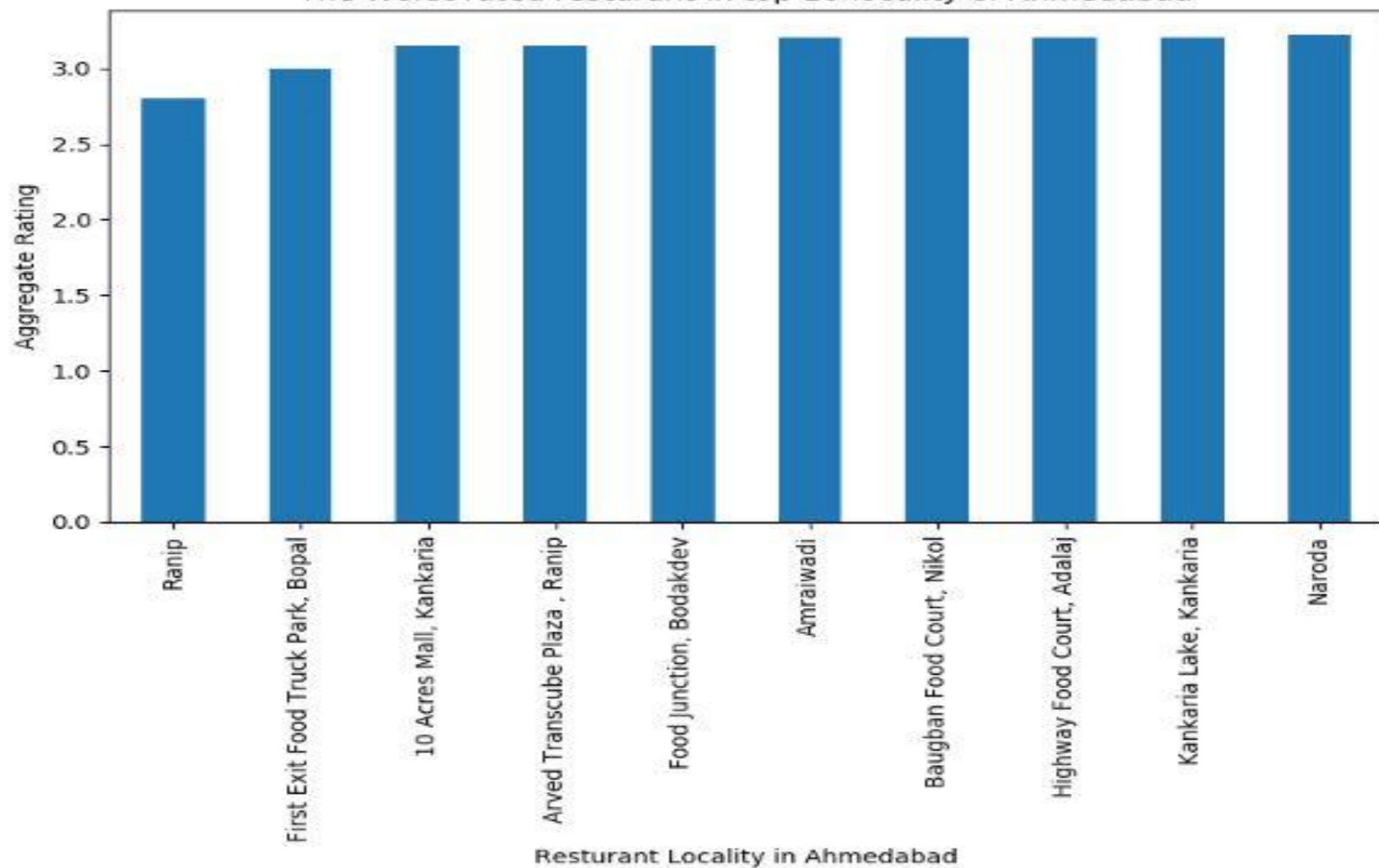
Review Stars Countplot



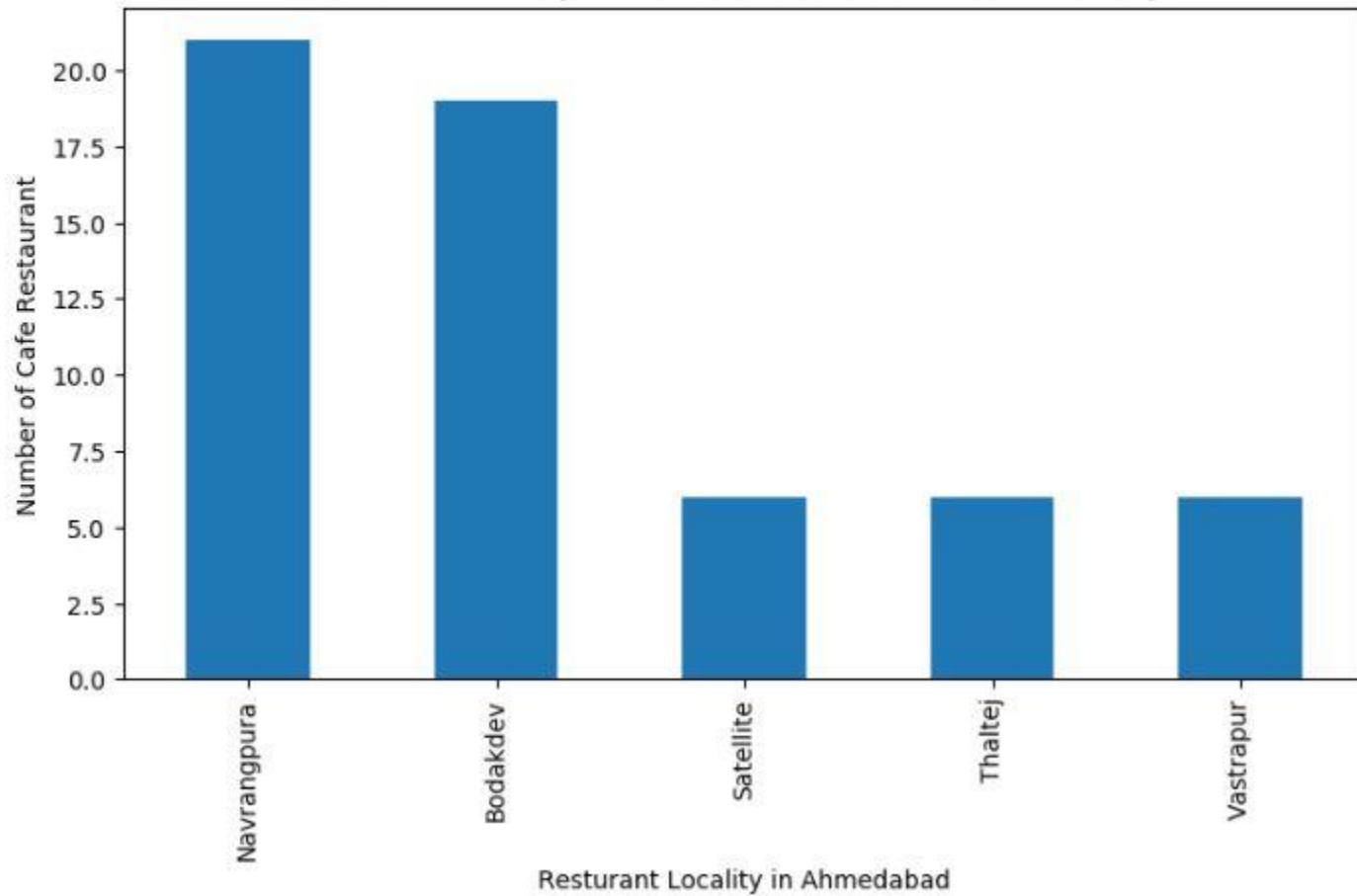




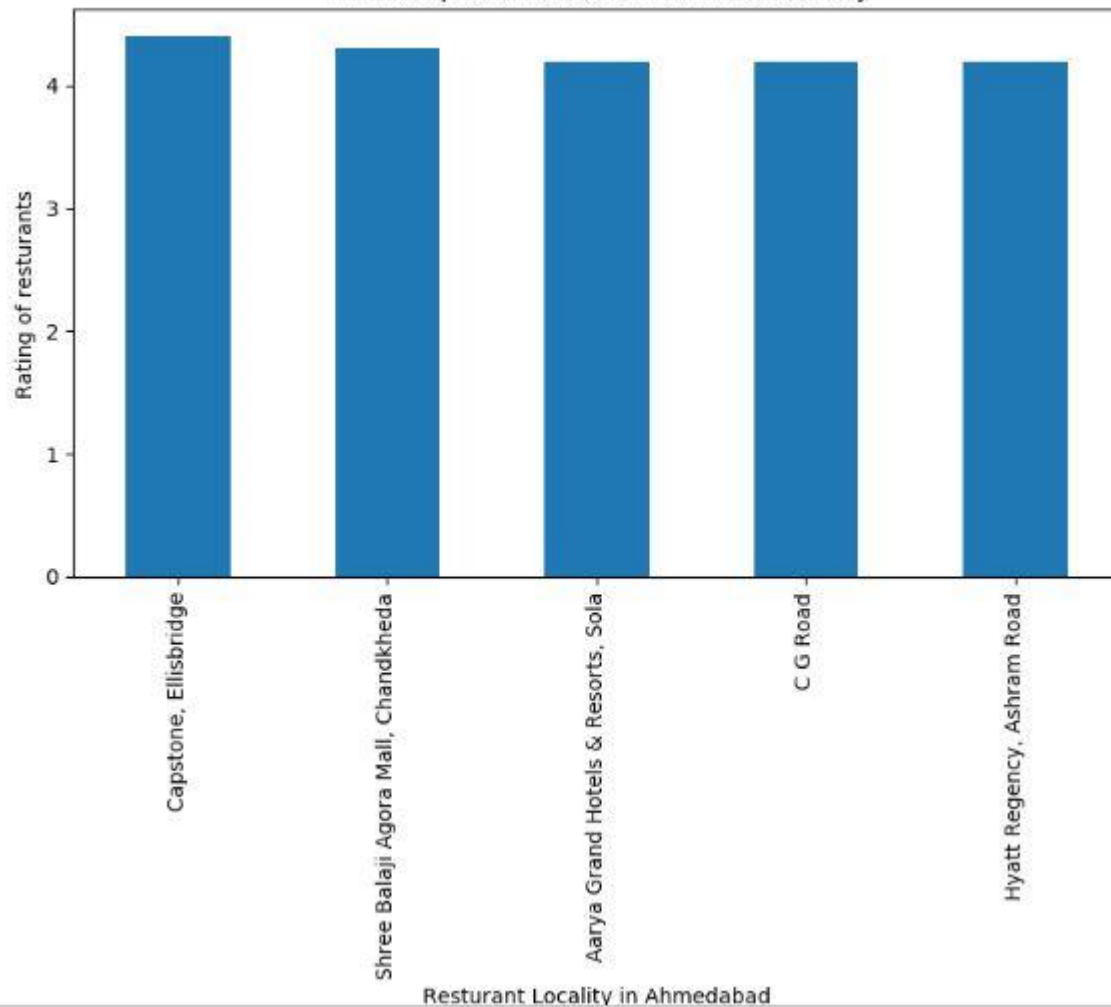
The Worst rated resturant in top 10 locality of Ahmedabad

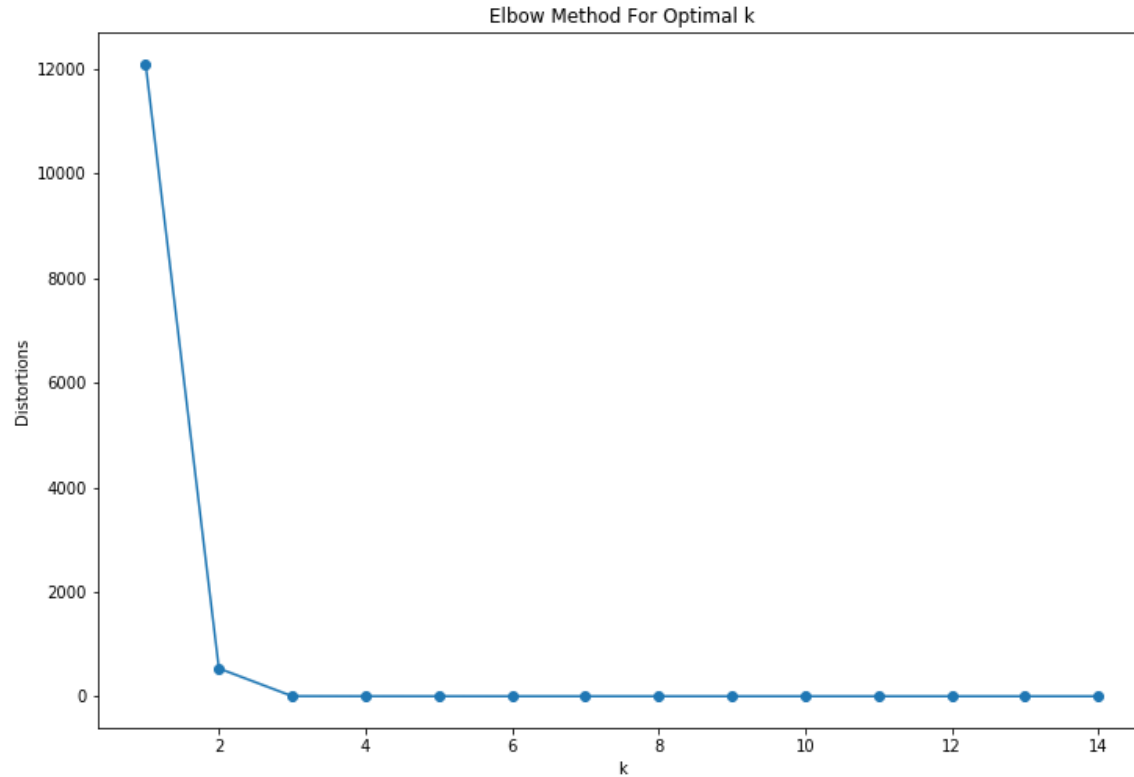


The best Locality for CAFE restaurant in Ahmedabad city



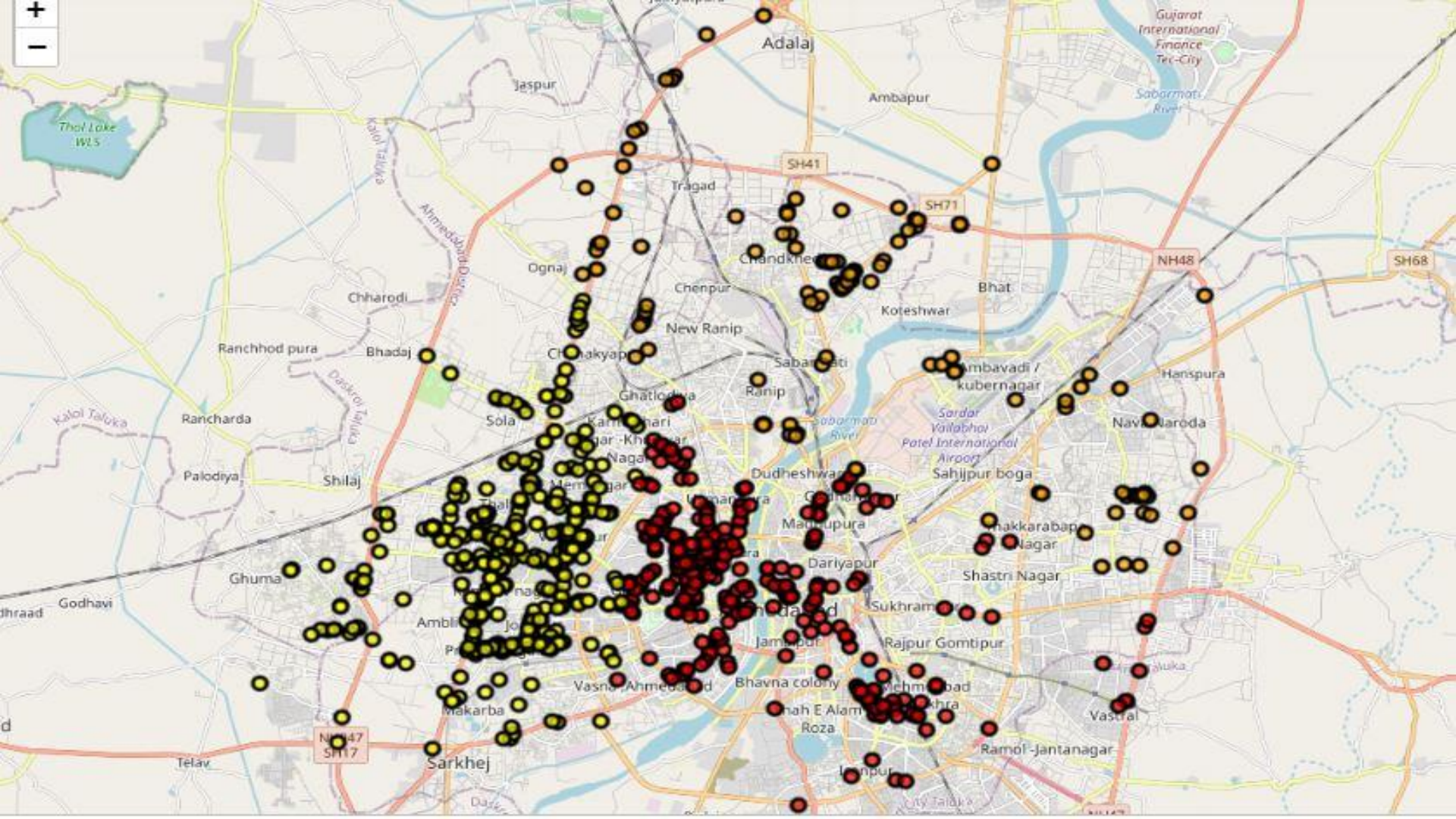
The best places for Cafe in Ahmedabad city





KMean

We can see in this graph that Kmean value is 3

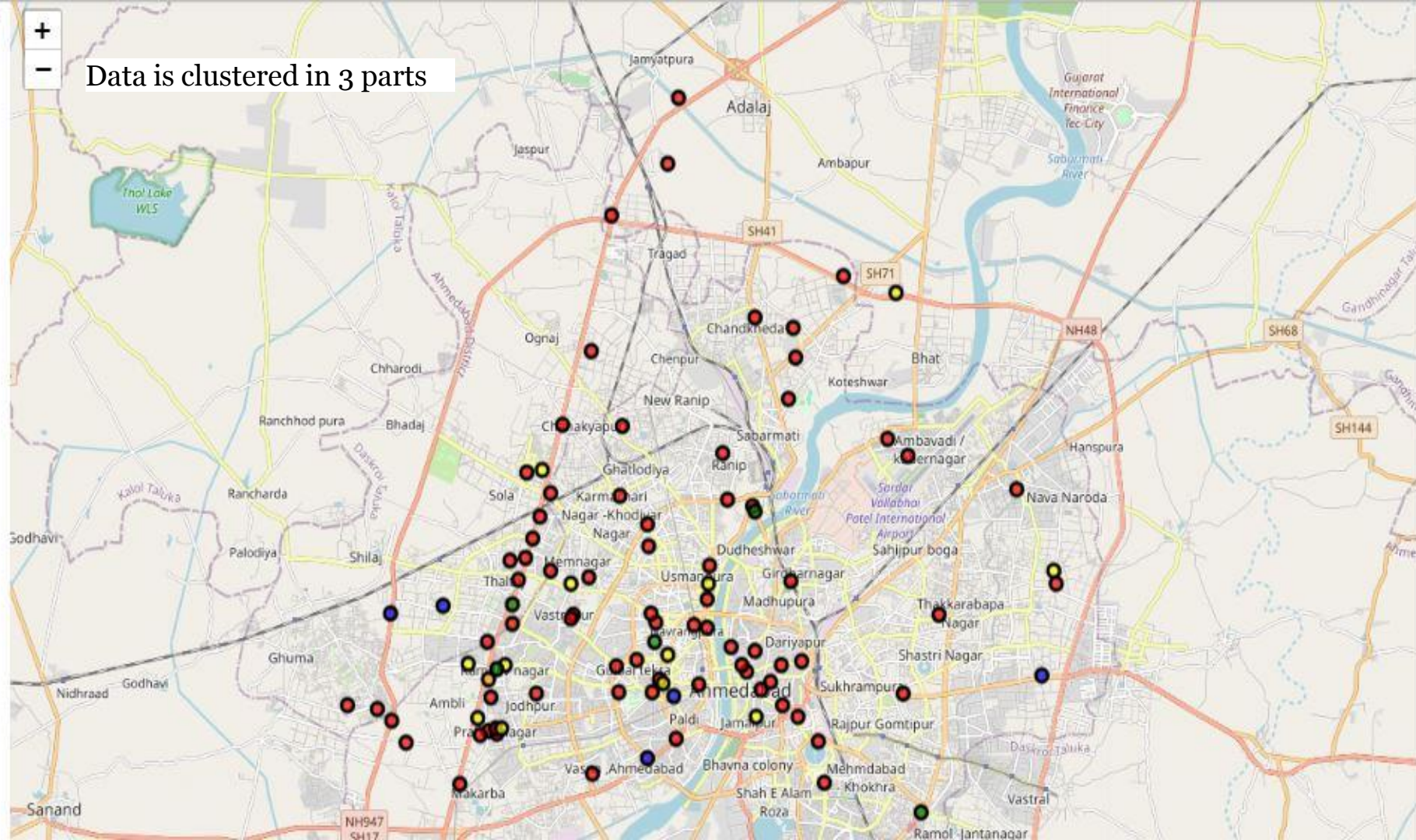




	Locality	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Sigma Legacy Building, Vastrapur	Café	Indian Restaurant	Bakery	Pizza Place	Sandwich Place	Breakfast Spot	Restaurant	Tea Room	Mexican Restaurant	Vegetarian / Vegan Restaurant
1	10 Acres Mall, Kankaria	Multiplex	Shopping Mall	Fast Food Restaurant	Clothing Store	Bus Station	Zoo	Dessert Shop	Diner	Donut Shop	Electronics Store
2	4D Square Mall, Chandkheda	Snack Place	Pizza Place	Arcade	North Indian Restaurant	Coffee Shop	Multiplex	Sandwich Place	Café	Zoo	Diner
3	Aarya Grand Hotels & Resorts, Sola	Hotel	Snack Place	Pool	Fast Food Restaurant	Dance Studio	Department Store	Dessert Shop	Diner	Donut Shop	Electronics Store
4	Acropolis Mall, Thaltej	Indian Restaurant	Gym / Fitness Center	Multiplex	Sandwich Place	Café	Shopping Mall	Snack Place	Mediterranean Restaurant	Ice Cream Shop	Furniture / Home Store
...	...	...	...	...	...	...	...	...	...	...	...
96	Vastrapur	Clothing Store	Pizza Place	Indian Restaurant	Fast Food Restaurant	Café	Shopping Mall	Snack Place	Food Court	Donut Shop	Men's Store
97	Vejalpur	ATM	Pool Hall	American Restaurant	Food & Drink Shop	Dessert Shop	Diner	Donut Shop	Electronics Store	Event Space	Falafel Restaurant
98	Venus Atlantis, Prahlad Nagar	Café	Vegetarian / Vegan Restaurant	Indian Restaurant	BBQ Joint	Coffee Shop	Restaurant	Hotel	Gas Station	Yoga Studio	Ice Cream Shop
99	Vittal Mall, Chandkheda	Pizza Place	Coffee Shop	North Indian Restaurant	Multiplex	Sandwich Place	Café	Snack Place	Zoo	Dance Studio	Dessert Shop



Data is clustered in 3 parts





	Locality	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
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...	...	...	...	...	...	...	...	...	...	...	...
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99	Vittal Mall, Chandkheda	Pizza Place	Coffee Shop	North Indian Restaurant	Multiplex	Sandwich Place	Café	Snack Place	Zoo	Dance Studio	Dessert Shop



# Cluster 1:

The Café are most recommended venues nearby the locations.

[138]:

	Latitude	Name	Cuisines	Aggregate Rating	Votes	Cluster Labels	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
0	23.027271	2	North Indian, BBQ, Desserts, Bakery	3.900000	979	0	Café	Indian Restaurant	Bakery	Pizza Place	Sandwich Place	Breakfast Spot	Restaurant	Tea Room	Me
1	23.014879	2	Beverages, Cafe, Sandwich, Fast Food, Burger, ...	3.150000	432	0	Multiplex	Shopping Mall	Fast Food Restaurant	Clothing Store	Bus Station	Zoo	Dessert Shop	Diner	l
2	23.102908	9	Pizza, Fast Food, Pizza, Fast Food, North Indi...	3.611111	4026	0	Snack Place	Pizza Place	Arcade	North Indian Restaurant	Coffee Shop	Multiplex	Sandwich Place	Café	

## Cluster 2:

It is recommended for the *Indian Restaurants* venues areas:

[140]:

	Latitude	Name	Cuisines	Aggregate Rating	Votes	Cluster Labels	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
10	22.991732	1	Gujarati	3.20	13	1	Café	Zoo	Dance Studio	Dessert Shop	Diner	Donut Shop	Electronics Store	Event Space	Falafel Restaurant
13	23.033316	2	Fast Food, Sandwich, Cafe, Tea	4.15	1432	1	Snack Place	Café	Indian Restaurant	Tea Room	Italian Restaurant	Arcade	Pizza Place	Asian Restaurant	Coffee Shop
42	23.026687	4	Chinese, Asian, Sushi, Japanese, Thai, North Indian, ...	3.45	1793	1	Multiplex	Hotel	Indian Restaurant	Coffee Shop	Pizza Place	Shopping Mall	Gym / Fitness Center	Italian Restaurant	American Restaurant

## Cluster 3:

It seems like Fast Food place,

[142]:

	Latitude	Name	Cuisines	Aggregate Rating	Votes	Cluster Labels	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
25	23.019937	2	Pizza, Italian, Cafe, Tea	4.350000	1104	2	Fast Food Restaurant	Coffee Shop	Park	Indian Restaurant	Pizza Place	Zoo	Dessert Shop	Diner	Do St
66	23.025218	4	Desserts, Ice Cream, Mithai, Chinese, North In...	3.575000	556	2	IT Services	Business Service	Zoo	Food & Drink Shop	Dessert Shop	Diner	Donut Shop	Electronics Store	Ev Sp
68	23.004792	2	Cafe, North Indian, Chinese	3.900000	467	2	Hotel	Sandwich Place	Bakery	Coffee Shop	Diner	Fast Food Restaurant	Ice Cream Shop	Pizza Place	A

# Conclusion

- Best Neighborhoods for **CAFE** : Navrangpura , Bodakdev , Satellite , Thaltej , Vastrapur
- Best **Cafe Resturant** :Capstone , Shree Balaji Agrora Mall , Aarya Grand Hotel , Hyatt
- Best **Resturants** in Ahmedabad : Hyatt(Vastrapur) , The ferm(Sola) , Hyatt(Ashram Road)

**Cluster 1:** It is most recommended for *Cafe*.

**Cluster 2:** It is most recommended for *Indian Restaurants*.

**Cluster 3:** It is most recommended for *Fast food*.