



Exploring places in Ahmedabad, India

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Background



Ahmedabad is the largest city in the Indian state of Gujarat. It is spread across approximately 460 square kilometers. It is situated on the banks of the Sabarmati river, mostly known for its tourist attractions. This project will help tourist to choose restaurant as per their choice of price and ratings.

Audience



The primary audience for this project is people who are visiting Ahmedabad or want to explore various cuisines in Ahmedabad. They can explore various restaurants and select the one which is best suited for their requirements.

Data Source

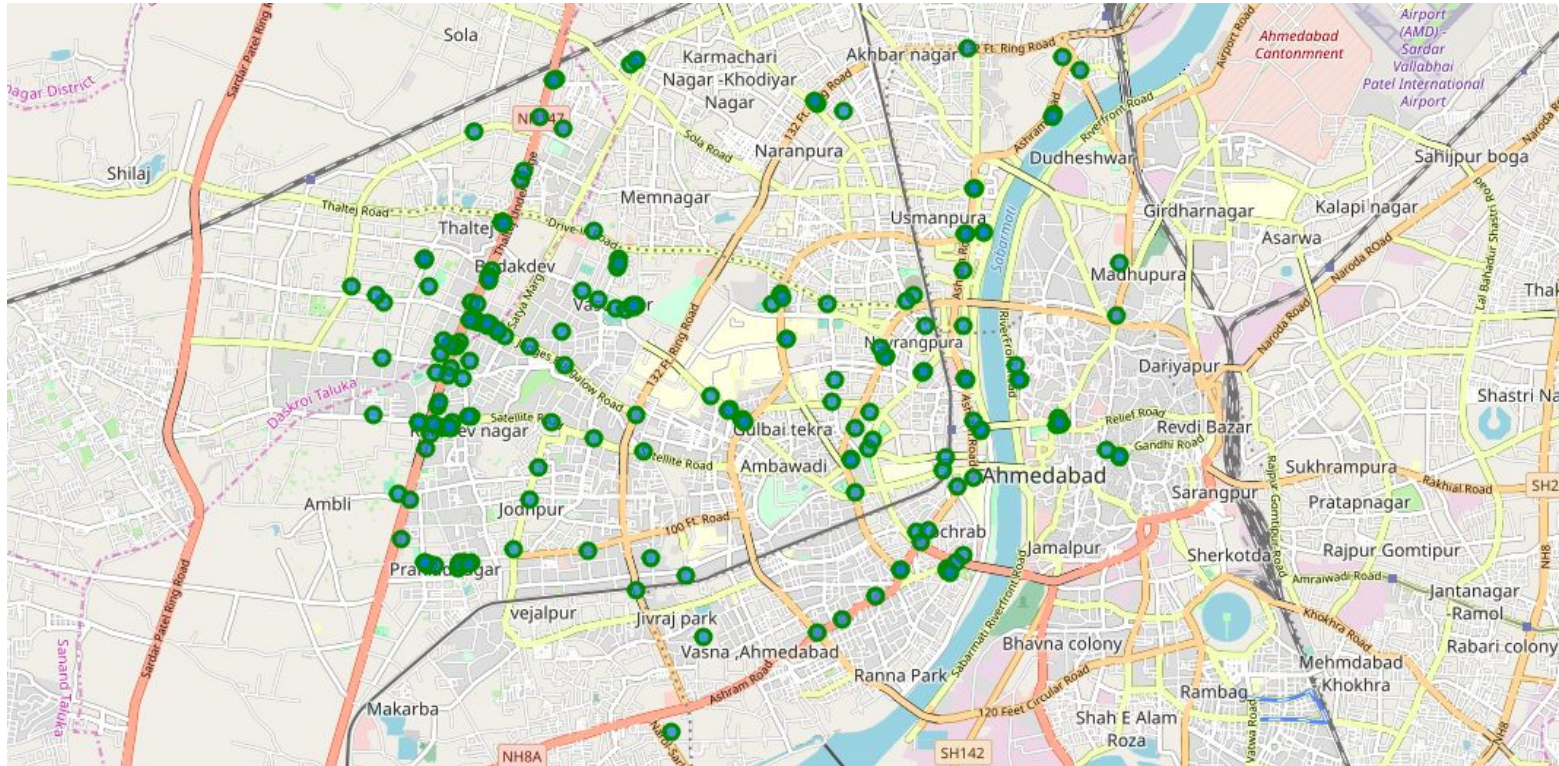


We will require data on restaurants in Ahmedabad. Various fields required are the name of the restaurant, location details containing longitude and latitude information, restaurant's ratings, pricing, and other useful information.

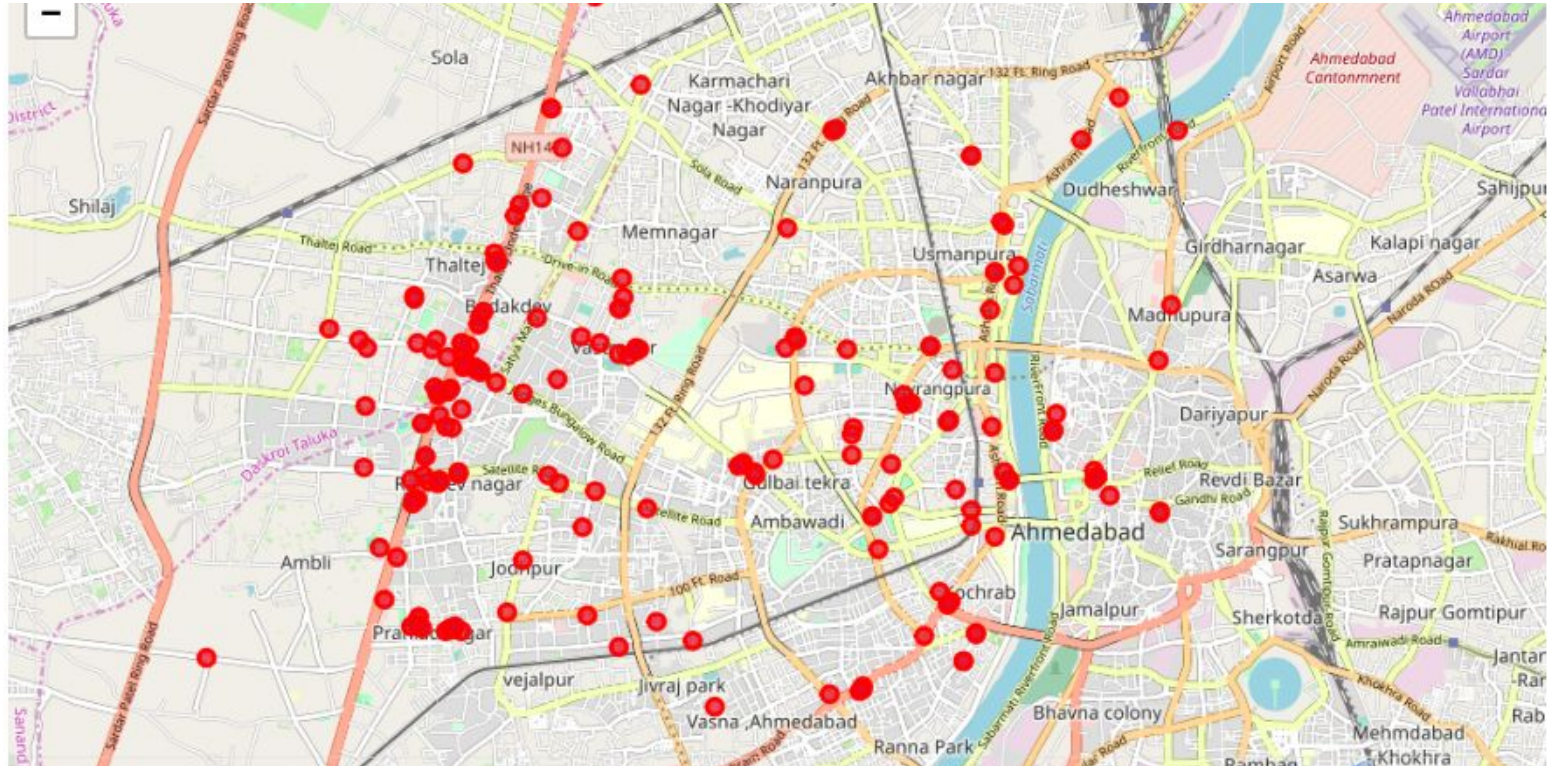
To get this information, following two APIs are mainly going to be used:

- Foursquare API
- Zomato API

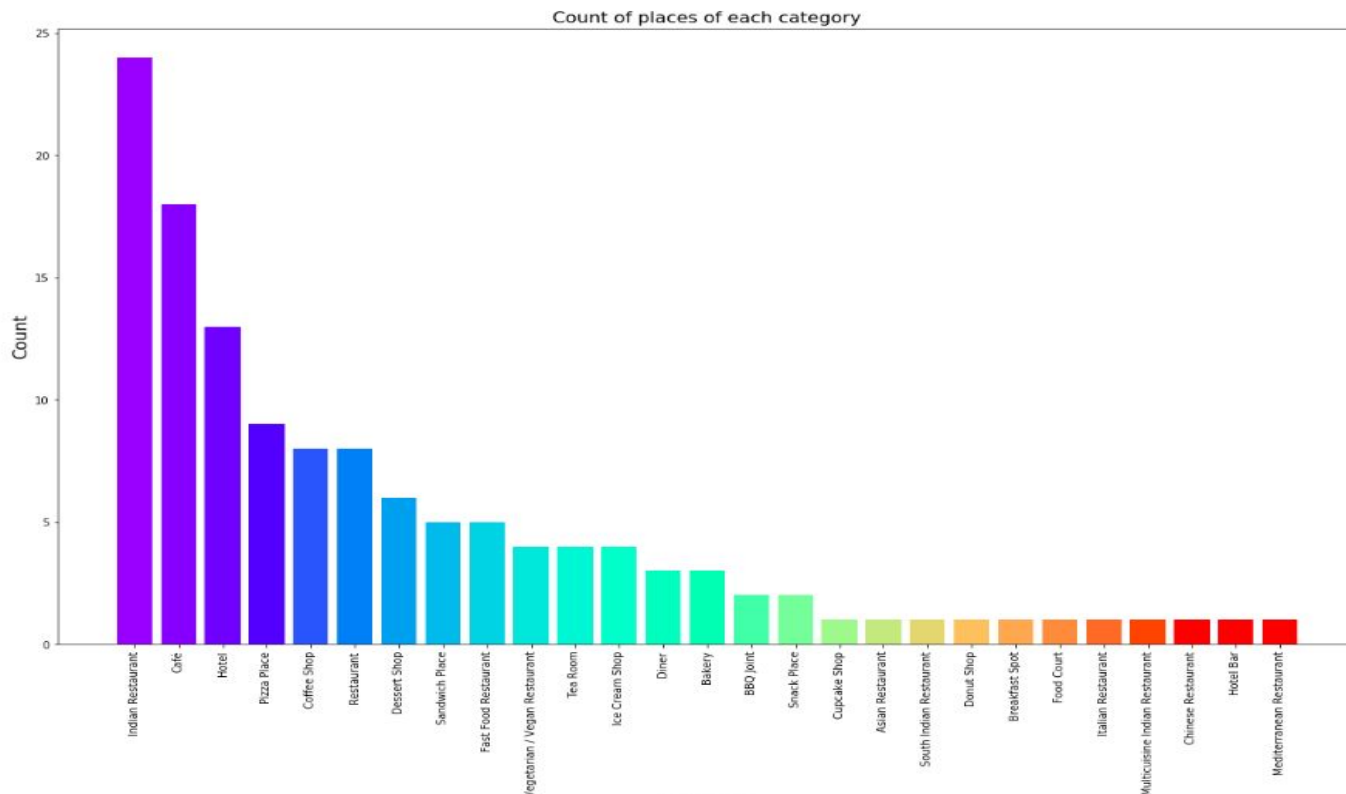
Venues retrieved from Foursquare API



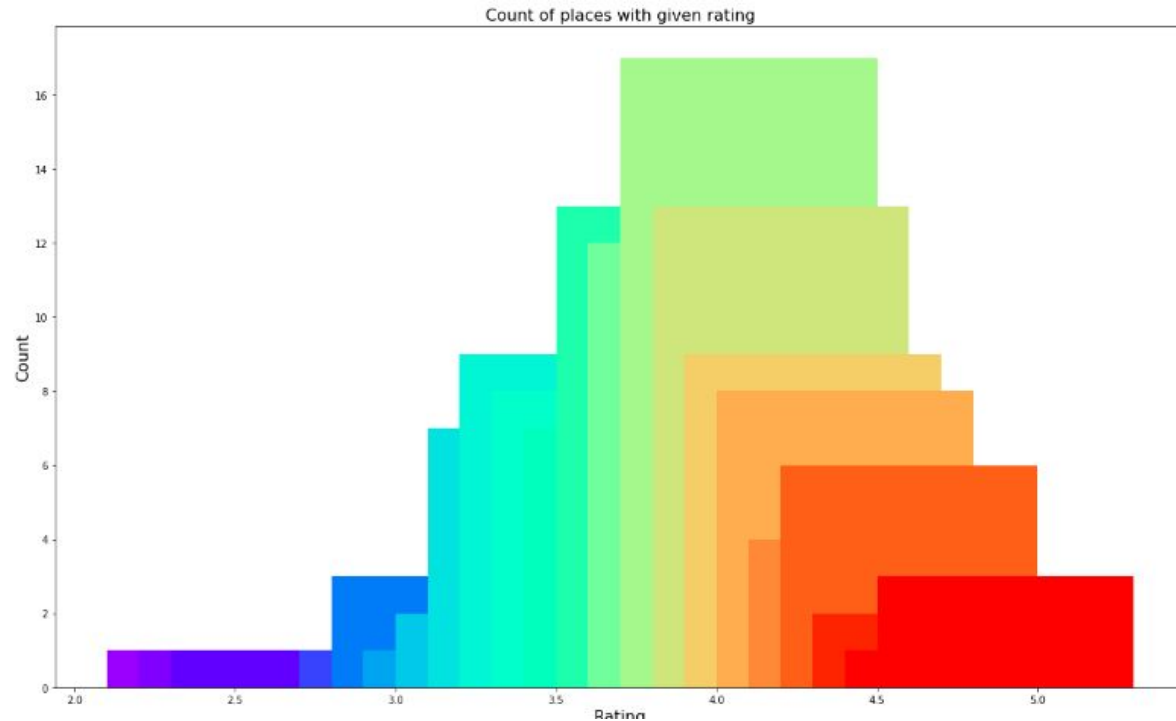
Venues retrieved from Zomato API



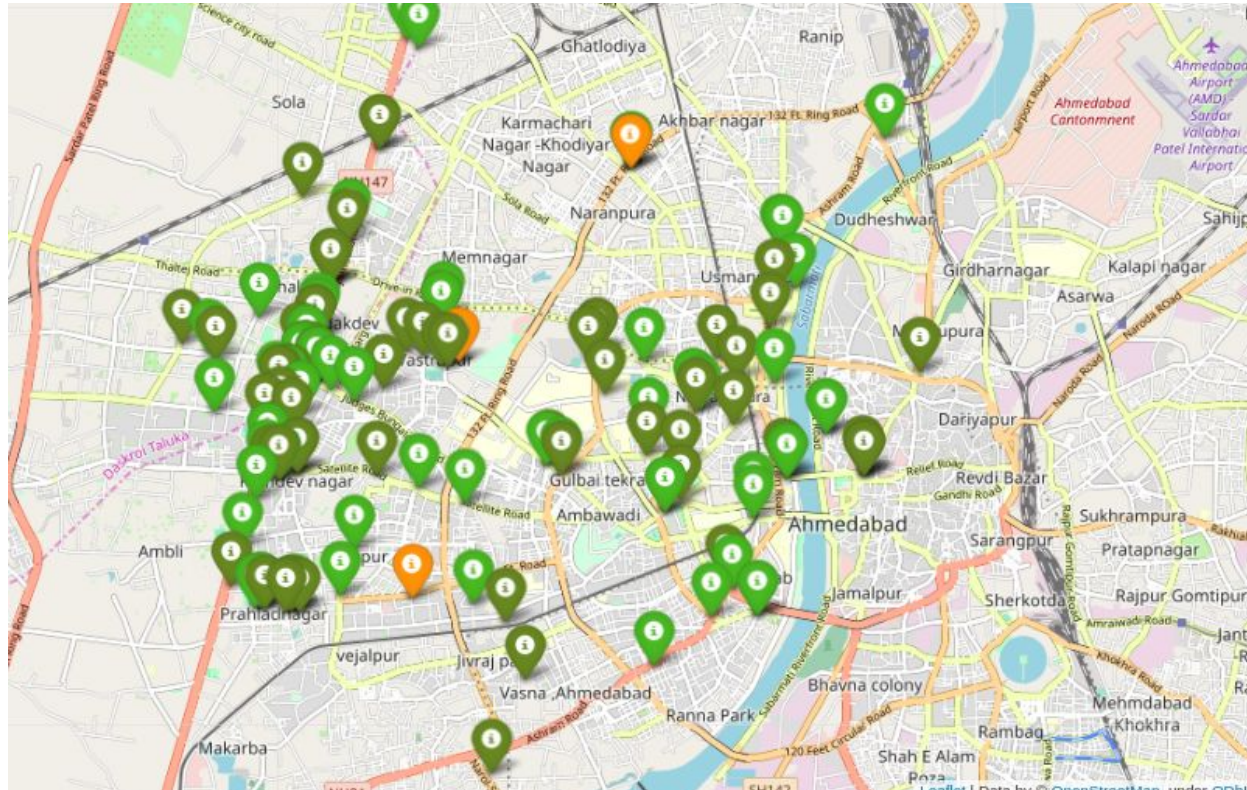
Venues by category



Venues count by rating



Venues plotted by rating



Color coding of Rating:

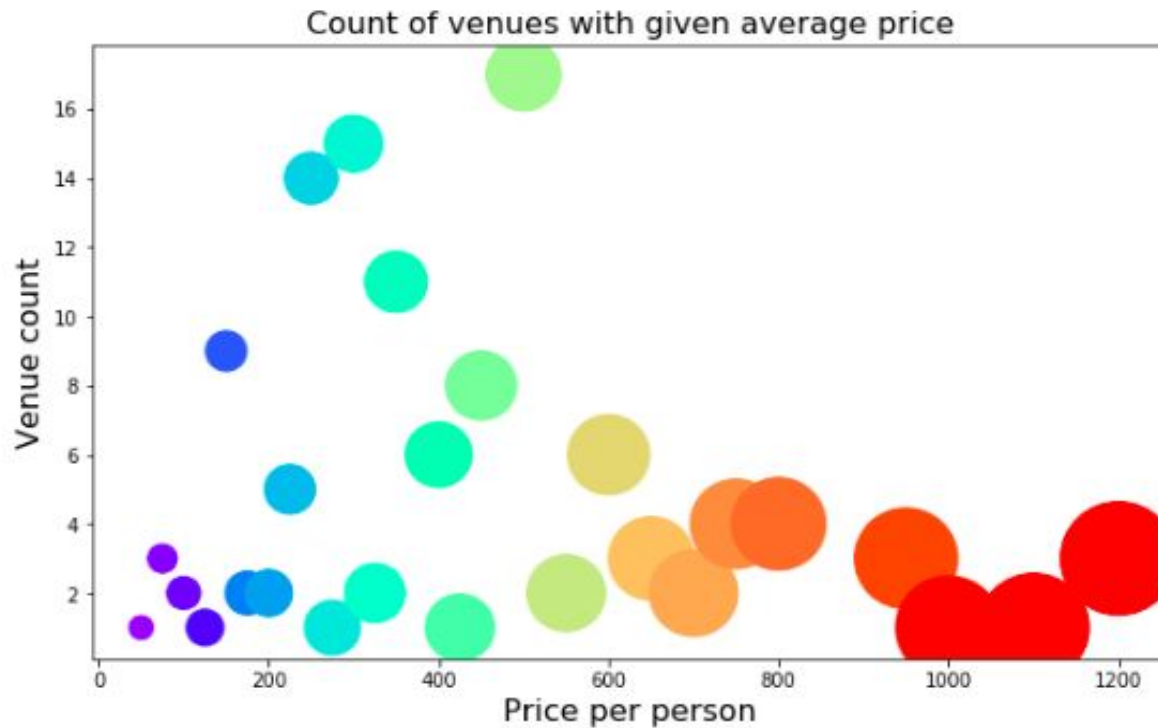
1-2: Red

2-3: Orange

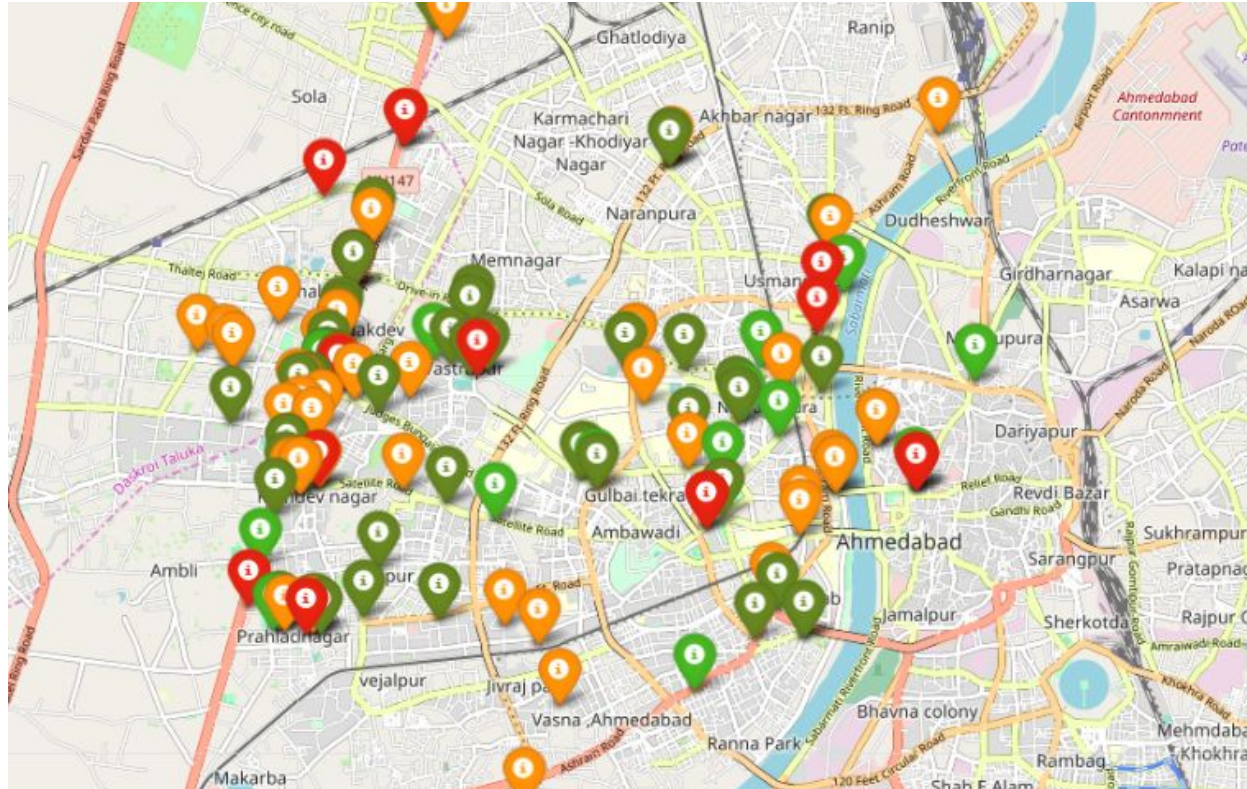
3-4: Green

4-5: Dark Green

Venues count by price



Venues plotted by price range



Color coding for price range:

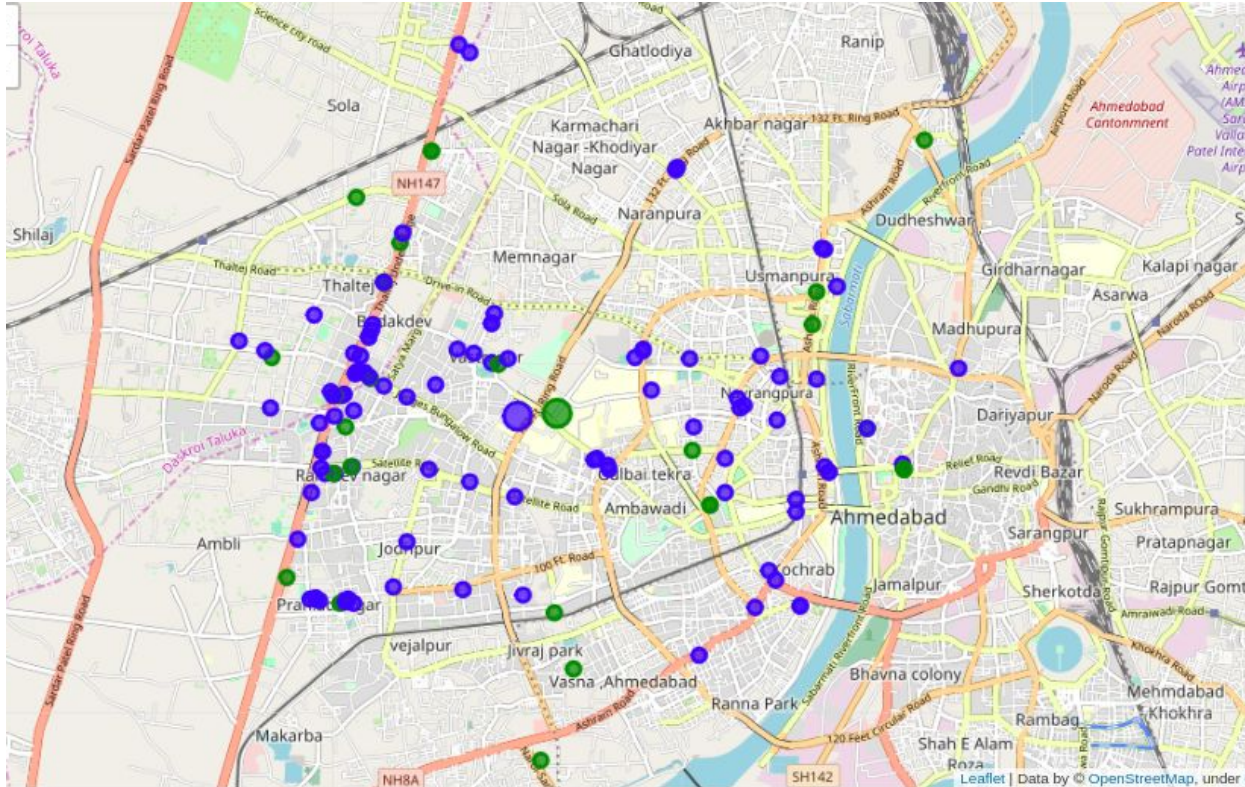
1: Green

2: Dark Green

3: Orange

4: Red

Clustering



Color coding of cluster:

- Blue:

Mean price range: 2.18

Avg Rating: 3.90

- Green

Mean price range: 3.59

Avg Rating: 4.33

Result



- We got list of 203 venues from Foursquare and Zomato APIs.
- After data cleaning 129 place were there to analyze.
- We find that the majority places are Indian Restaurant, Cafe, Hotel, Coffee Shop, Restaurant and Pizza Place.
- While the complete range of ratings range from 1 to 5, the majority venues have ratings close to 4.
- Price range is from Rs 100- Rs1000+ but most of restaurants fall under Rs 200 - Rs 600 price range.
- Most of venues are on SG Highway and Ashram road in analysed area
- Venues with relative lower price has average rating of 3.9 and venues with relative higher price has average rating of 4.33

Conclusion



The goal of this project was to explore various places that a person can visit while he is in Ahmedabad, Gujarat. The venues have been identified using Foursquare and Zomato API and have been plotted on the map. The map reveals that there are two major following areas near Gujarat University, Ahmedabad: S G Highway and Ashram Road. A person can easily identify places of their choice based on their priorities from the places plotted on maps.