Week 4 Submission

Introduction:

Nowadays, there are restaurants in every nook and corner of the city. For a tourist, it becomes quite confusing for him to look at the huge number of options he has. It would come in handy to get extra information like the restaurant price and the ratings of the restaurant based on the nearby location. This would help the tourist get a clear idea on which place to visit.
Mumbai, is a city that attracts many tourists from different places. It has restaurants, hotels, cafes, etc. ranging from various price points. This project explores various venues in Mumbai and provides data based on the average price and user ratings. We use foursquare API along with Zomato API to do so. It provides information such as name of the restaurant, address, category, average price and user ratings. To get information on the nearby location, we plot the places on the map with specific color attributes. These color coded plots will help the user decide which place to visit.

Interested audience:

The target audience for this project are the tourists who visit Mumbai. They can use these color-coded plots to get info on places that suits their needs. Also, companies can use this info to create a website or an app. This project can also be extended to different places.

Data:

In order to get rid of any inconsistencies regarding the venue location, I used two APIs, Foursquare API and Zomato API, and combined them together. The foursquare API was used to fetch venues in the range of 4 km radius from the co-ordinates of Mumbai which points out to the International airport at Santacruz. This helped me fetch the restaurant name, its category and its latitude and longitude.
I used this name, latitude and longitude info on the Zomato API to fetch venues from its database. The location inconsistencies was removed by cleaning the data.
The following things were retrieved from the foursquare API:

1. Name: The name of the restaurant
2. Category: The category of the restaurant
3. Latitude: The latitude value of the restaurant
4. Longitude: The longitude value of the restaurant

The following things were retrieved from the Zomato API:

1. Name: The name of the restaurant
2. Address: The full address of the restaurant
3. Rating: Ratings by users
4. Price Range: The price range of the restaurant defined by Zomato
5. Price for two: The price for two defined by Zomato
5. Latitude: The latitude value of the restaurant
6. Longitude: The longitude value of the restaurant