Exploration of Eateries in Kolkata

Problem

Statement

Exploring eateries in Kolkata, India using Foursquare and Zomato API

Riddhiman Basu April 25, 2020

Kolkata is a heritage city, the former capital of India. It is also a paradise for foodies. Apart from the rich heritage Bengali food and adopted Anglo-Indian cuisines, it has also come up with various new joints, some of them part of chains and some standalone. It now offers a variety of cuisine choices from Italian to Thai, Japanese etc. A person may be curious about the rating and the price range of the restaurants in order to make a proper choice.

This project explores various eateries in Kolkata and attributes the data based on user ratings and average price. To explore this information, this project involves the data from both the Foursquare API and the Zomato API to fetch complete information of various venues (including name, address, category, rating, and price). Further, a map of the venues with specific color attributes will be plotted to highlight their position, and information about these venues. Such plots imbibe bountiful information in the form of their colored representations and location on the map. This enables any visitor to take a quick glance and decide what place to visit.

Target Audience

The target audience is mainly tourists from abroad and other cities, as well as people who visit Kolkata on work assignments. This analysis could help them pick out restaurants which fit their budget and also near their current locality.

In addition, travel portals like TripAdvisor may also use such data to recommend restaurants for visitors.

Data

Data Sources

To get location and other information about various venues in the Kolkata, a combination of data from the 2 API sources will be used together:

1. Using the Four square's explore API (which gives venues recommendations), venues up to a range of 10 kilometers from the center of Kolkata, as per the coordinates available and their names, categories and locations (latitude and longitude) will be fetched.

2. Using the name, latitude and longitude values, Zomato search API will be used to fetch venues from its database. This API allows us to find venues based on search criteria (usually the name), latitude

and longitude values and more.

Data Requirements

Data collected from the 2 data sources, will be cleaned to extract the following vital information and then be used to solve the problem.
From Foursquare API (https://developers.zomato.com/api), we will retrieve the following information for each venue:
• **Name:** The name of the venue.
• **Category:** The category type as defined by the API.
• **Latitude:** The latitude value of the venue.
• **Longitude:** The longitude value of the venue.
From Zomato API (https://developers.zomato.com/api), we will retrieve the following for each venue:
• **Name:** The name of the venue.
• **Address:** The complete address of the venue.
• **Rating:** The ratings as provided by many users.
• **Price range:** The price range the venue belongs to as defined by Zomato.
• **Price for two:** The average cost for two people dining at the place.
• **Latitude:** The latitude value of the venue.
• **Longitude:** The longitude value of the venue.