Capstone Project - The Battle of Neighbourhoods

(Week 4)

1. **Description of the problem and a discussion of the background.**

   With the population of 20.1 million, Mumbai is the largest city in India in terms of area as well as population. Mumbai Metropolitan Region (MMR) consists of Mumbai and its satellite towns of Thane and Navi Mumbai. The region has an area of 6,355 square kilometres and with a population of over 26 million it is among the most populous and ethnically diverse metropolitan areas in the world.

   With a natural harbour, it's one of the most economically important locations in the world and is the core of the country's economy. It has always had a history of influx of people , in search of better prospects and opportunities. With Mumbai emerging as a growing hub of commerce and with rapid globalization , the taste spectrum of the inhabitants has broadened have begun preferring wide variety of cuisines. These has opened up great opportunities for multi-cuisine restaurants , adhering to the cravings of its diverse population

   . So, this project deals with how we can leverage Foursquare Data and machine learning to help us make decision and find appropriate, suitable neighbourhoods based on various cuisines and economic point of view. Opening a eatery or restaurant here is an lucrative idea for a enterprise or individual who want to extends its business to Asia. They

would be very interested in this project. Also, people looking for best places to try out their favoured cuisine can refer this.

2. Data source and how it will be used to solve the problem. :

- https://www.kaggle.com/srivpuneet16/zomato-mumbai-restaurant-analysis

  Description: Contains a Zomato Csv file containing database of all active restaurant locations in MMR. The locations of these can be extracted and the coordinates can be found out using GeoPy .This is later accessed to gather Foursquare Data.

• Restaurants in each neighbourhood of Mumbai:

Data source: Foursquare APIs

By using this API we will get all the venues in each neighbourhood. We can filter these venues to get only restaurants.