Coursera Capstone Final Project: Week 4

Introduction

New York City (NYC) is largest city in the United States of America. According to the Wikipedia, the estimated (2019) population of NYC is 8.3 million [1], of which 3.1 million are immigrants [2]. It is one of the most ethnically diverse metropolises. A published article claims that there are about 710,000 Indians residing in NYC [3], which is about 9% of the total NYC population.

Among many other things, Indians are known for their love towards spicy food. In this final project, the best locations for eating as well as opening an Indian restaurant is explored throughout NYC.

Specific Questions

1. How many Indian restaurants are there in NYC and how are distributed along different neighborhoods/boroughs?

2. What is the best location for Indian food in NYC?

3. In which neighborhood, potential restaurant owner should invest to have best chance of success?

Data

In order to answer above questions, the following data is needed:

1. Geospatial information of NYC, including names of neighborhoods, boroughs as well as their latitude, longitude

2. Details such as, name, ratings, of Indian restaurants in NYC.

Above data either be scrapped from internet and/or requested from Foresquare API using python.

Methodology

1. NYC geospatial data will be collected from https://cocl.us/new_york_dataset.

2. Data of Indian restaurants will be requested by using Foresquare API.

3. Collected data will be processed and exploratory analysis will be performed on the data.

4. Cleaned data will be visualised using different python libraries.

References

[1] https://en.wikipedia.org/wiki/New_York_City

[2] https://www1.nyc.gov/assets/immigrants/downloads/pdf/moia_annual_report_2018_final.pdf

[3] https://www.novacredit.com/resources/desis-in-new-york-a-guide-for-indian-newcomers-in-new-york-city/#:~:text=New%20York%20City%20houses%20one,Indian%20residents%20as%20of%202017.