

Introduction/Business Problem

Restaurant Location – Recommender System

Manhattan is the most densely populated of New York City's 5 boroughs. It's mostly made up of Manhattan Island, bounded by the Hudson, East and Harlem rivers. Among the world's major commercial, financial and cultural centers, it's the heart of "the Big Apple". New York City has been called both the most economically powerful city and the leading financial center of the world. City with high population and fast developing resources requires more food outlets. Due to its dense population there is a huge increase in demand for restaurant business and Manhattan is an ideal place to open a restaurant.

A entrepreneur wants to open an Mexican Restaurant in Manhattan, New York. The success of any restaurant depends on multiple factors like location, menu, interior, consistency in taste and many other. Entrepreneur approached us to help him to find a perfect location which is economic and profitable to them.

Using New York Neighborhood data and foursquare api we could find the neighborhood details of each restaurant. I plan to find neighborhoods where there is good Mexican restaurant and get the characteristics of that neighborhood using data analysis. Then i need to find neighborhoods with same character but with less Mexican restaurant presence. Using K mean clustering cluster those restaurants into groups according to the location, it will help us to get a view among the restaurants.