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Coursera Data Science Capstone Project

Restaurant location recommender

Introduction

Abu Dhabi is considered one of the fastest growing economies worldwide; it is famous for having a business-welcoming environment, diverse population, many famous tourism attractions and delicious multi-cultural restaurants, but the problem might be sometimes is that restaurants are cluttered in specific places, and it would be nice to have at least local restaurants distributed evenly .

Business Problem

The question that I will answer throughout this capstone project is; where is the best location to open a restaurant in Abu Dhabi, and to answer that, I will be using Foursquare location data combined with neighborhoods data which I have collected from google maps, along with k-means clustering to determine the best location for a restaurant by analyzing venues from Foursquare and finding out which neighborhood has the least concentration of restaurants.

Data

The data used in this project will be:

- Neighborhoods in Abu Dhabi with their coordinates, this is collected from Wikipedia and google maps.
- Venues for each neighborhood from Foursquare.

Once venues for each neighborhood is collected, then we will measure the frequency of restaurants in each neighborhood and find the neighborhood with the least restaurant frequency.