Coursera Capstone Project IBM APPLIED DATA SCIENCE CAPSTONE

Opening a new restaurant in Dhaka

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Introduction:

Restaurants are the hottest business everywhere in the world. Day by day people are turning to takeout foods because of their increase in working time. For many owners this is a great chance to earn more on this situation. For this reason more and more people are turning on to open their own restaurants. But this is not just opening a restaurant anywhere. Placement of a location is more important than people think. Most of the times it can be the most influential factor for whether a restaurant business will succeed or fail.

Problem Statement:

The target of this capstone project is to analyze the best location for a person to open a new restaurant in the city of Dhaka, Bangladesh with the help of Data Analysis and Unsupervised Machine Learning technique called K-Means Clustering.

Target Audience:

This project is particularly targeted for anyone who want to open a new restaurant. In the city of Dhaka, Bangladesh restaurant business has gone up so much in the past few years. But many faces failure as a result of choosing a poor place. And as 18% tax is for restaurants set by the Government of Bangladesh it is really crucial to choose the place for the restaurant.

Data:

To solve the problem we will need the following data:-

- 1. List of neighborhoods in Dhaka, the capital city of Bangladesh.
- 2. Latitude and Longitude of these neighborhoods.
- 3. Venue data for these neighborhoods.

The list of neighborhood will be obtained from https://en.wikipedia.org/wiki/Dhaka using python beautiful soup package. Latitude and longitude will be obtained from python geocoder package. And finally the venue data will be obtained from foursquare.com with a developer API.