IBM Data Science Capstone Project

Abstract

In this report, we will explore restaurants in Singapore by location and category, for a businessman to decide where he can open his next restaurant in Singapore.

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A description of the problem and a discussion of the background

Singapore, whilst small, is known for many things. It is a regional financial centre, a popular tourist destination and a shipping hub, home to over a population of 5 million. On top of that, Singapore is also known for its gastronomical delights. If you were to ask locals, or anyone who has lived in Singapore before, what they would miss the most of about Singapore if they were to move abroad, the common answer would be: food.

There are hundreds of eating places in Singapore, ranging from hawker centres to restaurants and snack places dotted across the country. Singapore is geographically small, and one can easily travel across Singapore by car in less than an hour.

If a businessman is thinking of opening a restaurant in Singapore, how does he start his research? How can we leverage Foursquare location data and machine learning to help the businessman decide he can open his restaurant? What type of restaurants are popular in Singapore?

A description of the data and how it will be used to solve the problem

Foursquare data about restaurants in Singapore will be used to extract information such as its location, name and category of food. Also, the overview of planning areas in Singapore will be extracted from Wikipedia: https://en.wikipedia.org/wiki/Planning_Areas_of_Singapore

