IBM - Data Science

Capstone Project

**Introduction**

This report is aimed at stakeholders looking to open a Restaurant Business in the Lower Mainland region of British Columbia, Canada.

It involves comparison of localities on the basis of population of the area, frequency of restaurants and restaurants per person. It also divides the Lower Mainland Region into 4 classes based on average household income in the area with category A regions having highest income followed by regions B, C and D respectively.

This report has been made as a submission for IBM Professional Data Science Certification by Japman Singh.

**Business Problem**

Due to great quality of life and better weather conditions than rest of Canada, Vancouver and the rest of Lower Mainland region has become a top location for immigrants to settle. This has led to a high number of businesses opening up limiting the scope for new businesses to open. This project will help to find ideal locations which have best chances of becoming successful.

**Data**

This project uses the following Data Sets

1. BC Postal Codes

2. BC Population

<https://en.wikipedia.org/wiki/List_of_the_100_largest_municipalities_in_Canada_by_population>

https://www12.statcan.gc.ca/census-recensement/2016/dp-pd/hlt-fst/pd-pl/Tables/File.cfm?T=1201&SR=1&RPP=9999&PR=0&CMA=0&CSD=0&S=22&O=A&Lang=Eng&OFT=CSV

3. BC average income distribution

4. Foursquare API to find frequency of Restaurants