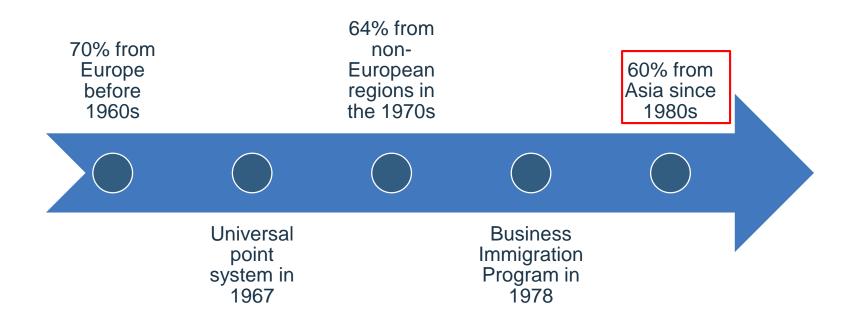
IBM DATA SCIENCE PROFESIONAL CAPSTONE PROJECT

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Background: Immigration to Canada



Quick Fact: Toronto

- Toronto Pollution 6.1 million by 2019
- 10.8% of the city's population, or 658 K(*) are Chinese, based on 2016 Census -> Big Market Share
- Location is key to run a successful Chinese Cuisine Restaurant.



About this project

- This is the capstone project for IBM Data Science Professional Certificate.
- Due to very high market share, it is a very good opportunity to open an Chinese Cuisine restaurant in Toronto.
 - This project is trying to find out the ideal location for open Chinese Cuisine restaurant in Toronto:
 - Neighborhoods list in Canada Toronto (week 3, from Wikipedia);
 - Use Foursquare API to get list of venues and coordinates;
 - Coordinates of Toronto Neighborhoods;
 - Use K-means Clustering to group by Toronto Neighborhoods by Chinese Cuisine restaurants.
 - Visualize the map and data by using Folium taught during visualization class.
 - Target Audience:
 - Entrepreneurs
 - Joint Venture or Private Equity who has interests on acquiring Chinese restaurants.

Data

To solve this problem, we will need below data:

List of neighborhoods in Toronto, Canada;

Latitude and Longitude of these neighborhoods;

Venue data related to Chinese restaurants;

Neighborhoods that are good to open an Chinese Restaurants.

EXTRACTING THE DATA

- The list of Toronto neighborhoods in Wikipedia;
- Latitude and Longitude data of neighborhoods via CSV provided during Week 3;
- Foursquare API to get venue information related to Chinses restaurants.

Result and Visualization (To-Be-Update in Week 5 Result)

- To be updated during week 5 after program is done.
- Will give out the location where is ideal location (to be updated).



THANK YOU

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