

Battle of NeighbourHoods

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Introduction

Toronto is the provincial capital of Ontario. With a recorded population of 2,731,571 in 2016, it is the most populous city in Canada and the fourth most populous city in North America. It is a multi cultural place with diverse population, also known for its great food.

Problem Statement

The idea of this project is to find the most popular type of restaurants in the city of Toronto and to find if opening a particular type of cuisine would be beneficial to the investors or business owners. For example, with the help of this project, a business owner can identify if opening an Indian restaurant in the city of Toronto will be beneficial for him/her or not. By analysing the data that we have mentioned and applying machine learning algorithms, we can understand business aspects and can answer various questions like the type of restaurant/cuisine, location for opening the restaurant and many more.

Target Audience

The results and analysis of the project can be utilised by Entrepreneurs, investors or Business owners who want to open a new restaurant in Toronto.

Data

1. For the Toronto neighborhood data, a Wikipedia page exists https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M that has all the information we need to explore and cluster the neighborhoods in Toronto. The Wikipedia page can be scraped and wrangled, cleaning the data and then reading it into a pandas dataframe can result in a structured format. This can be further used for analysis.

2. To get the geographical coordinates of the neighborhoods , we will be using a csv file http://cocl.us/Geospatial_data that has the geographical coordinates of each postal code.
3. We will be using the explore function to get the most common venue categories in each neighborhood of Toronto, and then use this feature to group the neighborhoods into clusters.

References

1. Wikipedia contributors. (2020, June 28). Toronto. In Wikipedia, The Free Encyclopedia. Retrieved 14:49, July 6, 2020, from <https://en.wikipedia.org/w/index.php?title=Toronto&oldid=964883458>