Identifying neighborhoods to establish a Mexican restaurant in Toronto

INTRODUCTION

A Mexican family have just arrived to Toronto. They had a Mexican restaurant in Mexico City and then they want to stablish a Mexican restaurant in Toronto as they are familiarized with the business. Since they have just arrived to Toronto, they do not know the city so they have asked for our services in order to identify the best neighborhoods to establish the restaurant.

DATA

We will identify Toronto's neighborhoods using public data (on Wikipedia). Then, we are going to use Foursquares data on Toronto's restaurants in order to identify which neighborhoods don't have Mexican restaurants in order to be innovative in the area. Ee will also include neighborhoods that have restaurants in order to be sure that there is a demand for restaurants in the area.

METHODOLOGY

We scrapped the web in order to construct a data frame with information on Toronto's neighborhoods.

Importing data and creating dataframe ¶

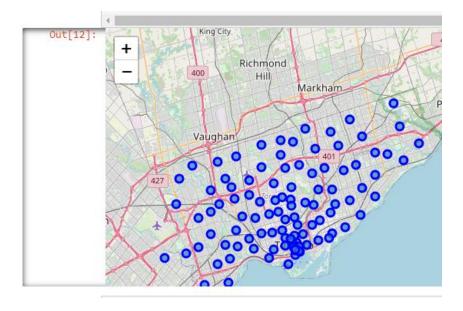


We grouped the locations according to common postal codes.

Grouping



We generated the map of Toronto's neighborhoods.



We retrieved the data from Foursquare

We generated a list of neighborhoods were there are restaurants present but none of them are Mexican.

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List of grouped neighbordhoods where Restaurants are present, except Mexican restaurants
In [52]: mex = toronto_grouped[(toronto_grouped["Mexican Restaurant"] == 0.0) & (toronto_grouped["Restaurant"] != 0.0)]
mex["Neighbourhood"]
                         Bathurst Manor, Wilson Heights, Downsview North
Bedford Park, Lawrence Manor East
Out[52]: 2
                     Brockton, Parkdale Village, Exhibition Place
Business reply mail Processing Centre, South C...
Central Bay Street
Christie
                                                                              Berczy Park
              13
              14
              18
                                                  Commerce Court, Victoria Hotel
              19
                                                                               Davisville
                      Del Ray, Mount Dennis, Keelsdale and Silverthorn
Don Mills
             21
22
             28
29
41
48
59
64
68
72
73
                                                     Fairview, Henry Farm, Oriole
                                     First Canadian Place, Underground city
India Bazaar, The Beaches West
Little Portugal, Trinity
Parkdale, Roncesvalles
Richmond, Adelaide, King
Runnymede, Swansea
                                                      St. James Town
St. James Town, Cabbagetown
             75
77
                      Stn A PO Boxes
Summerhill West, Rathnelly, South Hill, Forest...
              80
                                                     The Danforth West, Riverdale
                                                                       Thorncliffe Park
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Of the 93 group of neighborhoods in Toronto, we identified 27 that had restaurants but no Mexican restaurants. These places have the potential to establish a Mexican Restaurants since there is demand for restaurants, but no one offers Mexican food, being a unique proposal in the area.

DISCUSSION AND CONCLUSION

This work represents an easy way to identify places where there are no offering of a specific kind, in this case, a Mexican restaurant. Although Foursqare's API is somewhat limited right now, there is are lot of interesting things that can be done with it.