Applied Data Science Capstone: Best Location for Opening a Mediterranean Restaurant in Toronto by Maria

1.- Introduction/Business Problem:

<u>Idea:</u>

Thinking about create a new bussiness of Mediterranean Restaurant. Where is the best location for it? Location is really important to have a successful restaurant, demand, people and neighboorhood need to be analize.

<u>Purpo</u>se:

The purpose is find the best location for opening a Spanish Restaurant in Toronto

The possibilities of mediterranean food from Spain as an unique restaurant with quality and making the difference with other restaurants of the area. I will focus on find the best location for the restaurant, in a Good neighboorhod with potential clients and no so much competitors, although in an area with more restaurants to be sure the people loves go there for leisure.

Target Audience:

This can help people who want to open a Mediterranean restaurant in Toronto, or people with this business thinking about move the restaurant to another neighboorhood.

2. Data: The data sources are:

- a) For the Toronto neighborhood data: Wikipedia page,
 https://en.wikipedia.org/wiki/List of postal codes of Canada: M

 As we did in week3 of this Capstone I will read this data. I will create an structured format with the information of postal code, Borough and neighborhood.
- b) Then with "https://cocl.us/Geospatial data" csv file to get all the geo coordinates
- c) Then I will use Foursquare API to find the restaurants of the area

3. Managing the data

I read the data from Wikipedia for postal codes of Canada and remove the boroughs not assigned. Then group by postal code.

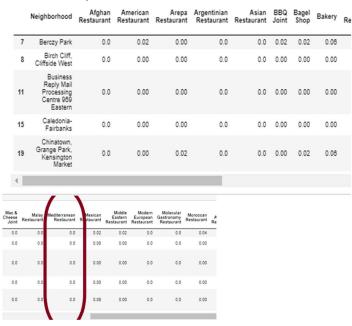
I add the coordinates for postal code

Then using Foursquare API I find all the venues per neighborhood. See the image:

	Neighborhood	Yoga Studio	Accessories Store	Airport	Airport Food Court	Airport Gate	Airport Lounge	Airport Service	Airport Terminal	American Restaurant	Aquarium	Art Gallery	Arts & Crafts Store	Asian Restaurant	Athletics & Sports	Auto Workshop	BBQ Joint	Baby Store	Bagel Shop	Bakery	Bank	Bar
0	Adelaide, King, Richmond	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
1	Agincourt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
2	Agincourt North, L'Amoreaux East, Milliken, St	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
3	Albion Gardens, Beaumond Heights, Humbergate,	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
4	Alderwood, Long Branch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
4																						-

Now is the time to create models to see if open a Mediterranean Restaurant is a good idea or not

We can see the restaurants per neighborhood to check there are a loto f them without competitors, no other Mediterranean Restaurants. That is great!:



And we can see the Pearson correlation for Mediterranean Restaurant is strong:



So, open a Mediterranean Restaurant is a Good idea in Toronto, we can choose in all of those neighborhoods to entrpreneur.

Thanks for Reading.