Data Requirement

In order to find out the right location for opening a Pizza restaurant, we need to collect various details of restaurants in the Central Toronto region. Below data is required to be collected:

1. List of all the Neighborhoods in the Central Toronto Region

This can be obtained from the below Wikipedia page
https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M

2. Latitude and Longitude of each Neighborhood

This data is available in spreadsheet form. This spreadsheet will be used as reference to get the Latitude and Longitude of each Neighborhood.

3. List of all the restaurants and their location in each Neighborhood

This can be obtained from the Foursquare API with the Get request on Venue with Explore option. For each neighborhood, API can be called using the Latitude and Longitude. API will return the list of venues in each Neighborhood along with their co-ordinates.

4. Type of each restaurants whether it is a Pizza restaurant or not

Using the Foursquare API, choose all the Restaurants by passing the 'Food' as section. This will return the type of each restaurant. Using this, we can determine how many Total restaurants and how many Pizza restaurant exists in each Neighborhood.

5. Identify the Neighborhood areas that does not have any Pizza restaurant so far.

Using the Clustering technique, identify the cluster of Neighborhood and number of total restaurants and pizza restaurant in each. With this data, we can identify the clusters and Neighborhood which does not have any Pizza restaurant. These areas will be ideal to start a new Pizza restaurant.