The Battle of Neighbourhoods

Data

Data Source

- The postal codes and neighbourhoods of Toronto are scraped from the Wikipedia link https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M

Postal Code	Borough	Neighbourhood
M1A	Not assigned	Not assigned
M2A	Not assigned	Not assigned
M3A	North York	Parkwoods
M4A	North York	Victoria Village
M5A	Downtown Toronto	Regent Park, Harbourfront
M6A	North York	Lawrence Manor, Lawrence Heights
M7A	Downtown Toronto	Queen's Park, Ontario Provincial Government
M8A	Not assigned	Not assigned
M9A	Etobicoke	Islington Avenue, Humber Valley Village
M1B	Scarborough	Malvern, Rouge
M2B	Not assigned	Not assigned
M3B	North York	Don Mills
M4B	East York	Parkview Hill, Woodbine Gardens
M5B	Downtown Toronto	Garden District, Ryerson
M6B	North York	Glencairn
M7B	Not assigned	Not assigned
M8B	Not assigned	Not assigned
M9B	Etobicoke	West Deane Park, Princess Gardens, Martin Grove, Islington, Cloverdale

Data Source

- Restaurant data is extracted via Foursquare API

	name	categories	lat	lng
0	Roselle Desserts	Bakery	43.653447	-79.362017
1	Tandem Coffee	Coffee Shop	43.653559	-79.361809
2	Impact Kitchen	Restaurant	43.656369	-79.356980
3	The Distillery Historic District	Historic Site	43.650244	-79.359323
4	Cooper Koo Family YMCA	Distribution Center	43.653249	-79.358008

Approach

- Neighbourhoods and postal code data will be scraped and input as a data frame.

- The imported data will be cleaned and pre-processed for further analysis.

- Foursquare API will be used for collating data on restaurants.

- K-Means Clustering Analysis will be used for classification of restaurants.

- The restaurants will be plotted against neighbourhood locations and based on the clustering a suitable location will be chosen.