Capstone Project - Opening a Café in Toronto

Data

To find the ideal location for a new café in Toronto we first need the geospatial data pertaining to the neighbourhoods in the city. Only the central boroughs of Downtown Toronto and Queen's Park are selected. The neighborhoods within these boroughs are identified by scraping the Toronto post code information from the Wikipedia page

'https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada: M'. The coordinates of the Toronto neighbourhoods can then be found using the package 'geocoder'.

The Foursquare API is used to find information on all venues in Toronto. Selections can be made so that only information about the cafés, coffee shops or tea rooms in Downtown Toronto and Queen's Park are returned, a selection of the data can be seen in the figure below. Then one can find the areas of low density for these types of venues.

Venue Category	Venue Longitude	Venue Latitude	Venue	Neighborhood Longitude	Neighborhood Latitude	Neighborhood	
Coffee Shop	-79.361809	43.653559	Tandem Coffee	-79.36264	43.65512	Regent Park, Harbourfront	0
Coffee Shop	-79.365609	43.651900	Rooster Coffee	-79.36264	43.65512	Regent Park, Harbourfront	6
Coffee Shop	-79.359515	43.658135	Sumach Espresso	-79.36264	43.65512	Regent Park, Harbourfront	8
Coffee Shop	-79.364917	43.651613	Starbucks	-79.36264	43.65512	Regent Park, Harbourfront	12
Coffee Shop	-79.358970	43.656821	Savoury Grounds	-79.36264	43.65512	Regent Park, Harbourfront	18
Coffee Shop	-79.386972	43.664271	Coffee Island	-79.39188	43.66253	Ontario Provincial Government	29
Coffee Shop	-79.394152	43.659018	Second Cup	-79.39188	43.66253	Ontario Provincial Government	32
Café	-79.389903	43.658928	Aroma Espresso Bar	-79.39188	43.66253	Ontario Provincial Government	34
Coffee Shop	-79.391221	43.659415	Tim Hortons	-79.39188	43.66253	Ontario Provincial Government	36
Coffee Shop	-79.388696	43.658906	Tim Hortons	-79.39188	43.66253	Ontario Provincial Government	37
Café	-79.376073	43.657772	Page One Cafe	-79.37804	43.65739	Garden District, Ryerson	40
Coffee Shop	-79.380445	43.657020	Tokyo Smoke	-79.37804	43.65739	Garden District, Ryerson	54
Café	-79.378315	43.658078	Oakham Café	-79.37804	43.65739	Garden District, Ryerson	55
Coffee Shop	-79.379200	43.657854	Balzac's Coffee	-79.37804	43.65739	Garden District, Ryerson	57
Café	-79.381385	43.657029	The Black Canary Espresso Bar	-79.37804	43.65739	Garden District, Ryerson	59