

The Battle of Neighborhoods (Week 2)

Capstone project

The problem

- Bus stop:
 - latitude = 43.649815
 - longitude = -79.342163
- Many places to practise exercise like lakes and gyms
- Not many places to eat

- Only places to eat nearby are:
- Tim Hortons and MountainViewFare
trade Coffee
- And they are still pretty far...
- 637m and 609m respectively



Data

- The data used was provide by Foursquare's API
- Listing nearby locations

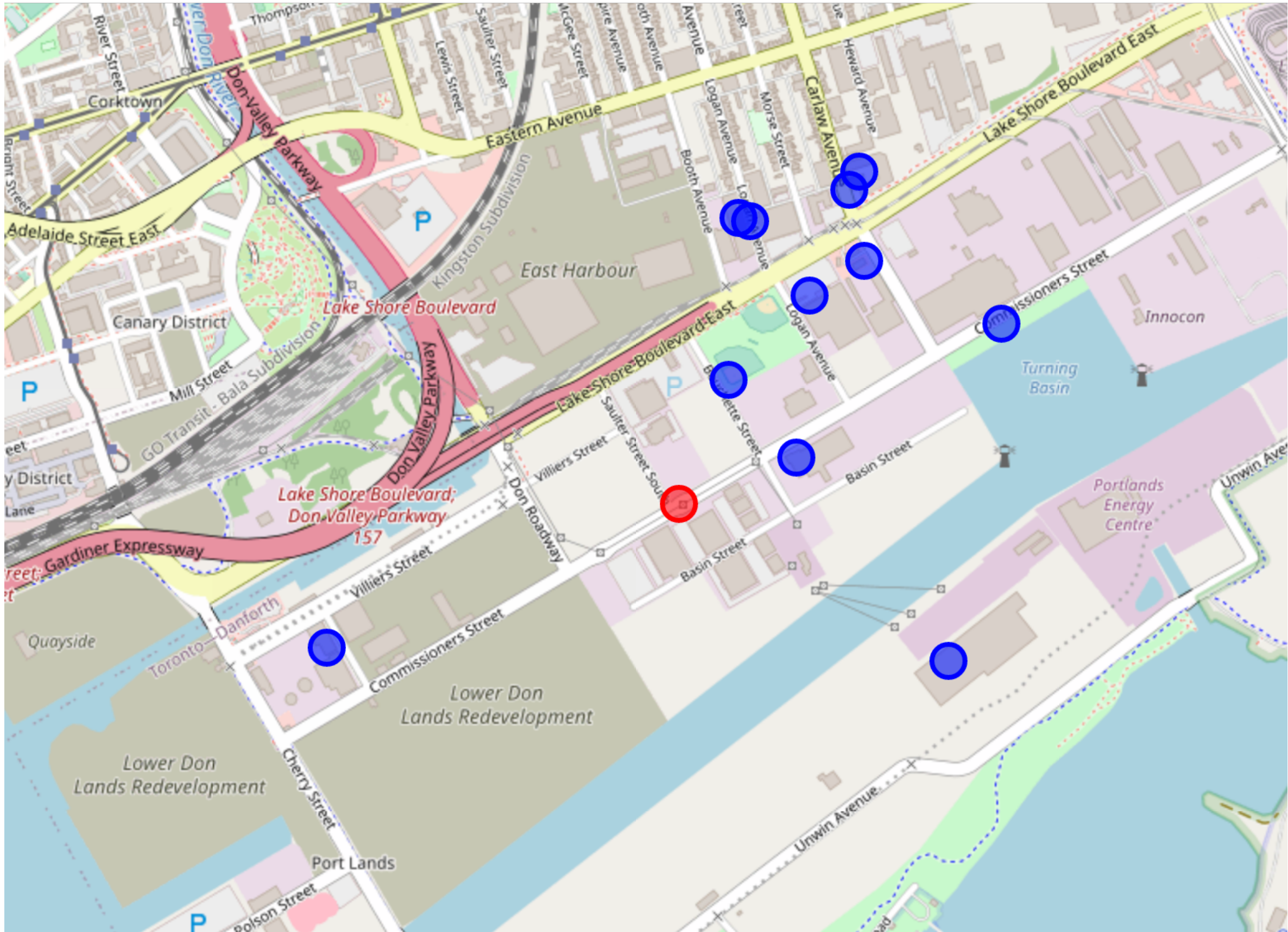
Methodology

Steps

1. Import all the libraries necessary to run everything smoothly. Some of them are Pandas, Numpy, Request, Nominatim, Folium
2. Access Foursquare's API by putting information relating to Foursquare's account
3. Set the location we want to analyse. In the case of the project it was latitude = 43.649815 and longitude = -79.3421
4. Take the average between the distance of the bus stop and the spots near
5. Plotting map using Folium

Results

Plotted map



Generated dataframe

| | name | categories | address | crossStreet | lat | lng | labeledLatLngs | distance | postalCode | cc | city | state | country | fr |
|----|-----------------------------------|---------------------|-------------------------|---------------------------|-----------|------------|--|----------|------------|----|---------|-------|---------|----|
| 0 | BATLgrounds | Athletics & Sports | 33 Villiers St | Villiers St. & Cherry St. | 43.647088 | -79.351306 | [{'label': 'display', 'lat': 43.647088, 'lng': -79.351306, 'distance': 796, 'postalCode': 'M5A 1A9', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 796 | M5A 1A9 | CA | Toronto | ON | Canada | |
| 1 | District 28 | Coworking Space | 28 Logan Ave | NaN | 43.655174 | -79.340598 | [{'label': 'display', 'lat': 43.655174, 'lng': -79.340598, 'distance': 609, 'postalCode': 'M5A 1A9', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 609 | NaN | CA | Toronto | ON | Canada | |
| 2 | Mayfair Racquet and Fitness Clubs | Gym | 801 Lake Shore Blvd. E | NaN | 43.653707 | -79.338742 | [{'label': 'display', 'lat': 43.653707, 'lng': -79.338742, 'distance': 513, 'postalCode': 'M5A 1A9', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 513 | NaN | CA | Toronto | ON | Canada | |
| 3 | Hearn Generating Station | Government Building | 440 Unwin Ave. | Cherry St. | 43.646847 | -79.335144 | [{'label': 'display', 'lat': 43.646847, 'lng': -79.335144, 'distance': 654, 'postalCode': 'M4M 3B9', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 654 | M4M 3B9 | CA | Toronto | ON | Canada | |
| 4 | FedEx Ship Centre | Business Service | 475 Commissioners St | NaN | 43.650679 | -79.339094 | [{'label': 'display', 'lat': 43.650679, 'lng': -79.339094, 'distance': 265, 'postalCode': 'M4M 1A5', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 265 | M4M 1A5 | CA | Toronto | ON | Canada | C |
| 5 | McCleary Park | Baseball Field | Lakeshore Blvd E | at Logan | 43.652116 | -79.340865 | [{'label': 'display', 'lat': 43.652116, 'lng': -79.340865, 'distance': 276, 'postalCode': 'M4M 1A5', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 276 | NaN | CA | Toronto | ON | Canada | (|
| 6 | Tim Hortons | Coffee Shop | 829 Lakeshore Blvd East | at Carlaw Ave. | 43.654367 | -79.337359 | [{'label': 'display', 'lat': 43.654367, 'lng': -79.337359, 'distance': 637, 'postalCode': 'M4M 1B2', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 637 | M4M 1B2 | CA | Toronto | ON | Canada | (|
| 7 | MountainView Fare trade Coffee | Coffee Shop | 26 Logan Ave | Lakeshore Blvd | 43.655125 | -79.340321 | [{'label': 'display', 'lat': 43.655125, 'lng': -79.340321, 'distance': 609, 'postalCode': 'M4M 2M8', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 609 | M4M 2M8 | CA | Toronto | ON | Canada | T |
| 8 | Habitat For Humanity ReStore | Department Store | 3 Carlaw Avenue | NaN | 43.655695 | -79.337724 | [{'label': 'display', 'lat': 43.655695, 'lng': -79.337724, 'distance': 745, 'postalCode': 'M4M 1A5', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 745 | NaN | CA | Toronto | ON | Canada | |
| 9 | Bayside Rowing Club | Lake | 525 Commissioners St. | Carlaw Ave | 43.653188 | -79.333794 | [{'label': 'display', 'lat': 43.653188, 'lng': -79.333794, 'distance': 771, 'postalCode': 'M4M 1A5', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 771 | NaN | CA | Toronto | ON | Canada | C |
| 10 | Fortis Fitness | Gym | 11 Carlaw Ave | Carlaw and Lakeshore | 43.656052 | -79.337474 | [{'label': 'display', 'lat': 43.656052, 'lng': -79.337474, 'distance': 790, 'postalCode': 'M4M 2R6', 'cc': 'CA', 'city': 'Toronto', 'state': 'ON', 'country': 'Canada'}] | 790 | M4M 2R6 | CA | Toronto | ON | Canada | |

Conclusion

- The location studied does not have many places to eat
- A restaurant near the bus stop at around 100m would be ideal since there are many gyms, a lake and a Baseball field