# The battle of neighborhoods: Final Report

#### Introduction

Suppose we want to open a Indian restaurant, which area in Downtown Toronto is an better? So we pay attention to the following factors, based on which to decide where to put our Indian restaurant

- number of restaurants
- Money ratio of people in that area

# 2 Methodology

• Attractiveness is our goal, used to measure whether it's a good idea to open the restaurant in this neighborhood

### **Data description**

Sources of the previously mentioned data where are needed in our research include

- Population by Borough and Neighborhood. Statistics Bureau of Canada, UN Database.
- · Restaurants by number, style, and locations. Collection from Foursquare API

## 4 Analytics and Results

### 4.1 Administrative data of Neighborhoods

In the Borough named Downtown Toronto, There are 16 neighborhoods, each with the following Postal Code and coordinates (latitude, longitude respecively),

see	Figure	PostalCode	Neighborhood	Borough	Latitude	Longitude
0	50	M4W	Rosedale	Downtown Toronto	43.679563	-79.377529
1	51	M4X	Cabbagetown, St. James Town	Downtown Toronto	43.667967	-79.367675
2	52	M4Y	Church and Wellesley	Downtown Toronto	43.665860	-79,383160
3	53	MSA	Harbourfront, Regent Park	Downtown Toronto	43.654260	-79.360636
4	54	M5B	Ryerson, Garden District	Downtown Toronto	43.657162	-79.378937
5	55	MSC	St. James Town	Downtown Toronto	43.651494	-79.375418
6	56	MSE	Berczy Park	Downtown Toronto	43.644771	-79.373306
7	57	M5G	Central Bay Street	Downtown Toronto	43.657952	-79.387383
8	58	мын	Adelaide, King, Richmond	Downtown Toronto	43.650571	-79.384568
9	59	M5J	Harbourfront East, Toronto Islands, Union Station	Downtown Toronto	43.640816	-79.381752
10	60	M5K	Design Exchange, Toronto Dominion Centre	Downtown Toronto	43.647177	-79.381576
11	61	MSL	Commerce Court, Victoria Hotel	Downtown Toronto	43,648198	-79.379817
12	66	MSS	Harbord, University of Toronto	Downtown Toronto	43.662696	-79,400049
13	67	MST	Chinatown, Grange Park, Kensington Market	Downtown Toronto	43.653206	-79.400049
14	68	MSV	CN Tower, Bathurst Quay, Island airport, Harbo	Downtown Toronto	43.628947	-79.394420
15	69	M5W	Stn A PO Boxes 25 The Esplanade	Downtown Toronto	43.646435	-79.374846
16	70	M5X	First Canadian Place, Underground city	Downtown Toronto	43.648429	-79.382280
17	75	M6G	Christie	Downtown Toronto	43.669542	-79.422564

Chinese Restaurant	40
Restaurant	39
Italian Restaurant	33
Japanese Restaurant	26
Steakhouse	20
Seafood Restaurant	20
American Restaurant	20
Pizza Place	19
Vegetarian / Vegan Restaurant	17
Thai Restaurant	17
Burger Joint	16
Breakfast Spot	15
Sushi Restaurant	14
Sandwich Place	12
Salad Place	10
Fast Food Restaurant	10
Diner	10
Mexican Restaurant	8
French Restaurant	8
Creperie	7
Indian Restaurant	7
Fried Chicken Joint	7
Vietnamese Restaurant	7
New American Restaurant	6
Burrito Place	5
Greek Restaurant	5
Plaza	5
Mediterranean Restaurant	4
Middle Eastern Restaurant	4
Comfort Food Restaurant	4
Caribbean Restaurant	4
Gluten-free Restaurant	3
Beer Store	3
Latin American Restaurant	3
Eastern European Restaurant	3
Belgian Restaurant	3
Soup Place	3
Taco Place	2

Figure 2: Restaurants of Downtown Toronto

#### **Restaurants of Neighborhoods**

- 1. There are 6 out of 16 neighborhoods in which Indian restaurtants consist of more than 9
- · Chinatown, Grange Park, Kensington Market
- · Harbord, University of Toronto
- · Cabbagetown, St. James Town
- Central Bay Street
- First Canadian Place, Underground city
- Ryerson, Garden District

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Figure 3: Restaurants of Downtown Toronto

- 2. There are 7 out of 16 neighborhoods in which the percentage of Chinese restaurants is less than 5
- Commerce Court, Victoria Hotel
- Harbourfront East, Toronto Islands, Union Station
- Stn A PO Boxes 25 The Esplanade
- St. James Town
- Berczy Park
- Christie
- Harbourfront, Regent Park
  - 3. The remaining 3 neighborhood have mild competition and satisfactory demand scale, and are of our further consideration for location choice of opening a Chinese restaurant
- · Adelaide, King, Richmond
- Design Exchange, Toronto Dominion Centre
- Church and Wellesley

The Borough "Downtown Toronto" of Toronto, there are 3 neighborhoods we can choose to open a new Chinese Restaurant, which are

1. Adelaide, King, Richmond

2. Design Exchange, Toronto Dominion Centre

3. Church and Wellesley