

Predicting Neighborhood for Living in Toronto

Applied Data Science with Capstone by IBM

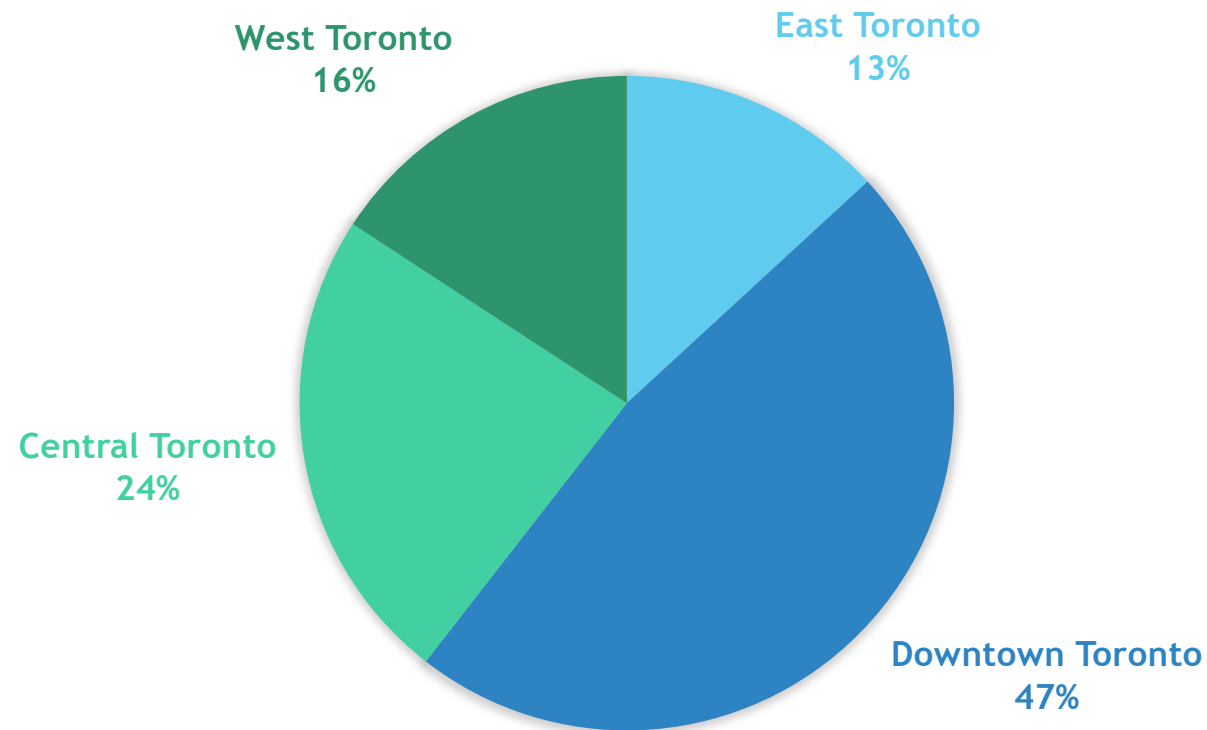
Predicting location in Neighborhood that will be valuable to the resident seeker

- ▶ Generally, the one who is searching for the residence location in Toronto are very concern about the availability of necessities things like Grocery store, Pharmacy, Restaurant and many more.
- ▶ Above mention venues where the general requirement of every civilians while looking for the residency.
- ▶ So our main aim would be to find the neighborhood where maximum required venues are available.
- ▶ Every civilians wants to have happening too around where they are living in Toronto. So we have choose the Borough in Toronto.

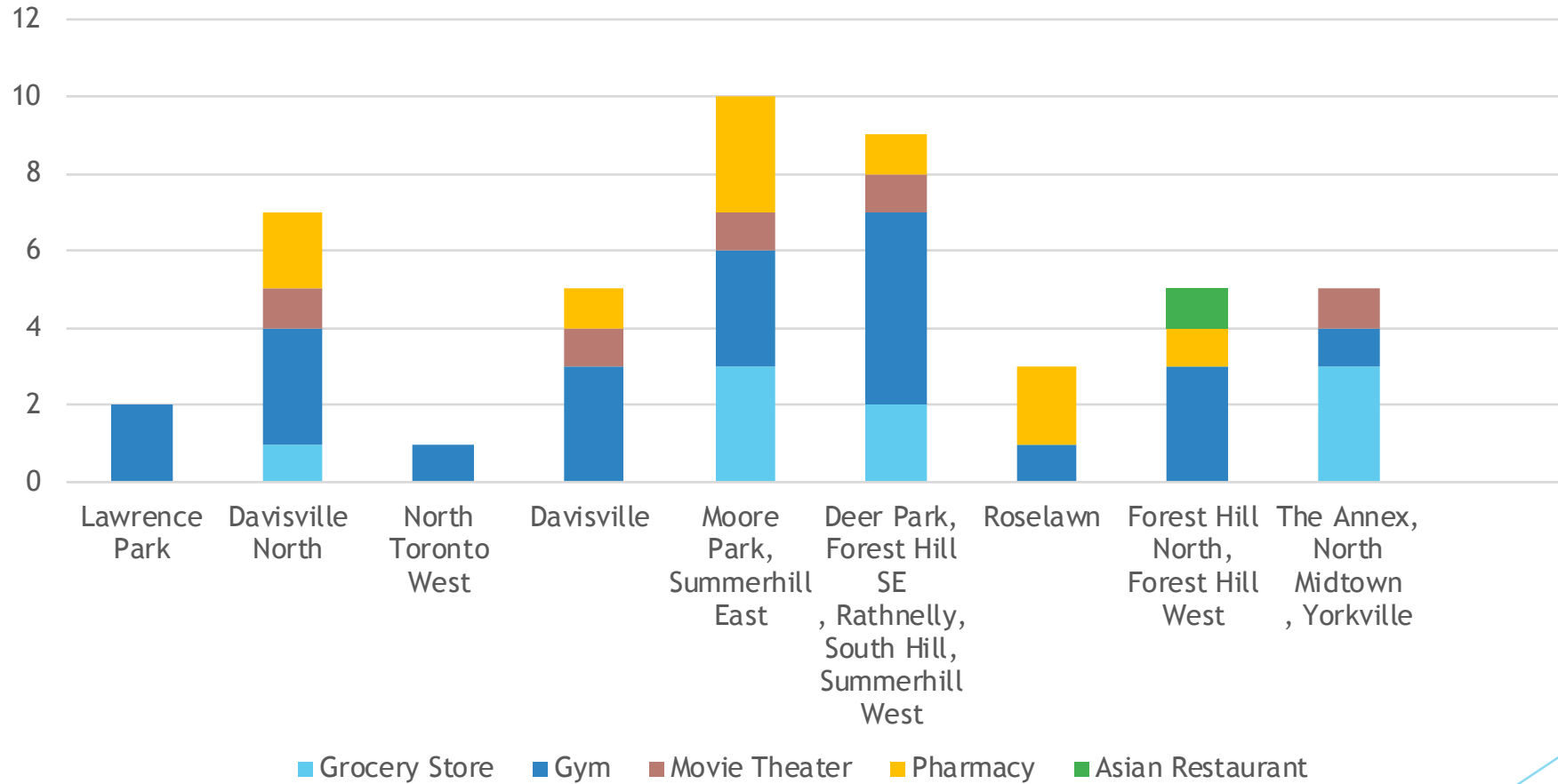
Data Description

- ▶ The data of postal code, Borough and Neighborhood of Toronto we used from https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M,.
- ▶ Using Web scraping, the data is converted into dataframe for further analysis.
- ▶ Another set of data i.e. location of each postal code is retrieved from csv file (<https://ibm.ent.box.com/public/9afzr83pps4pwf2smjjcf1y5mvgb18rr.csv>)
- ▶ With Foursqaure got the different categories venue available in each Neighborhood.

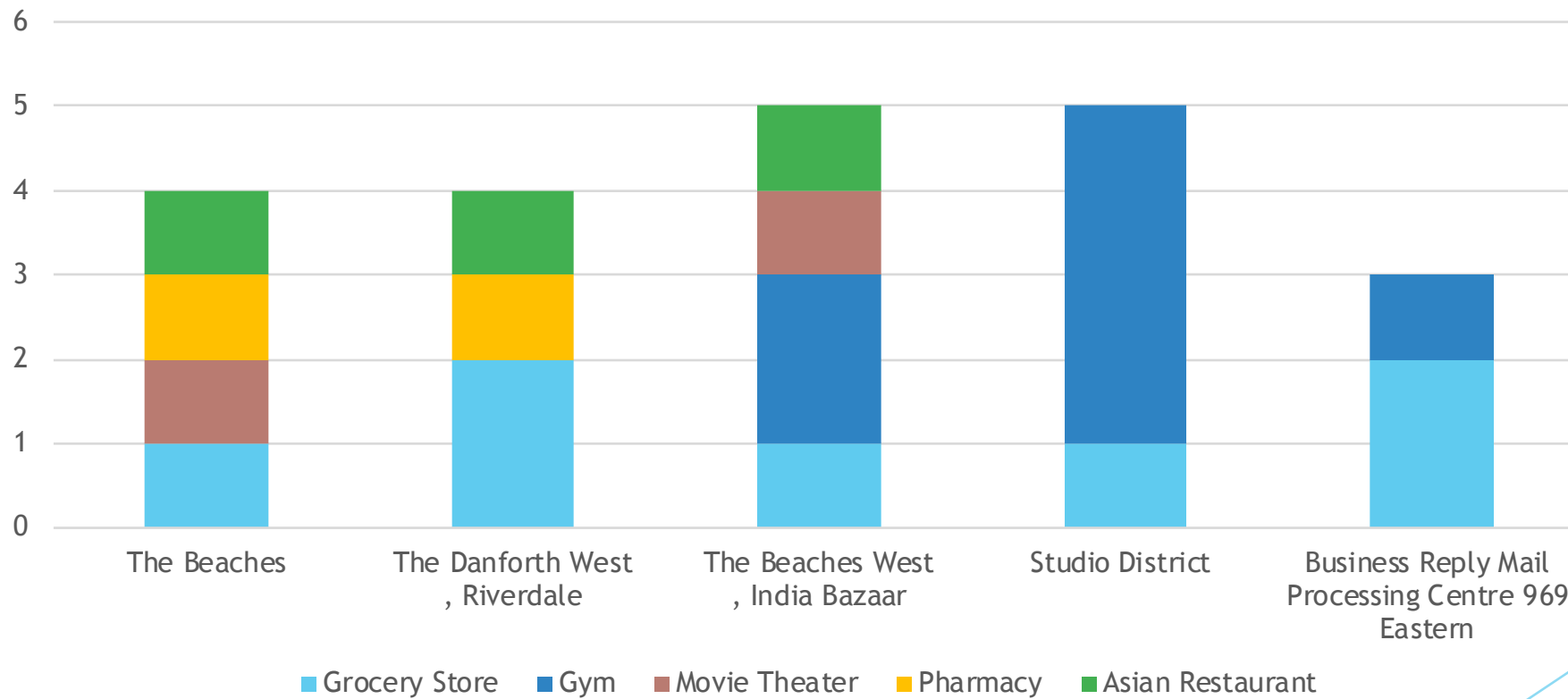
Ratio of Neighborhood in each Borough



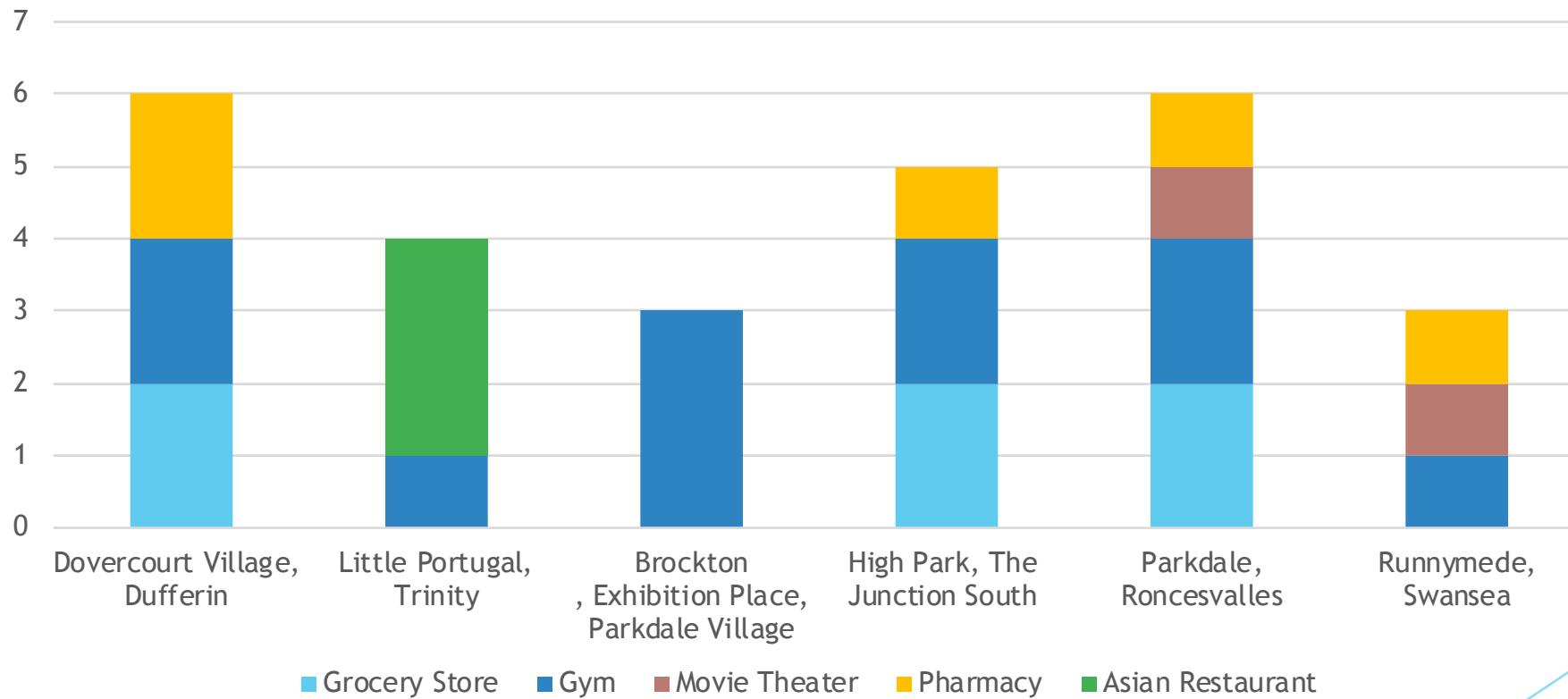
Central Toronto



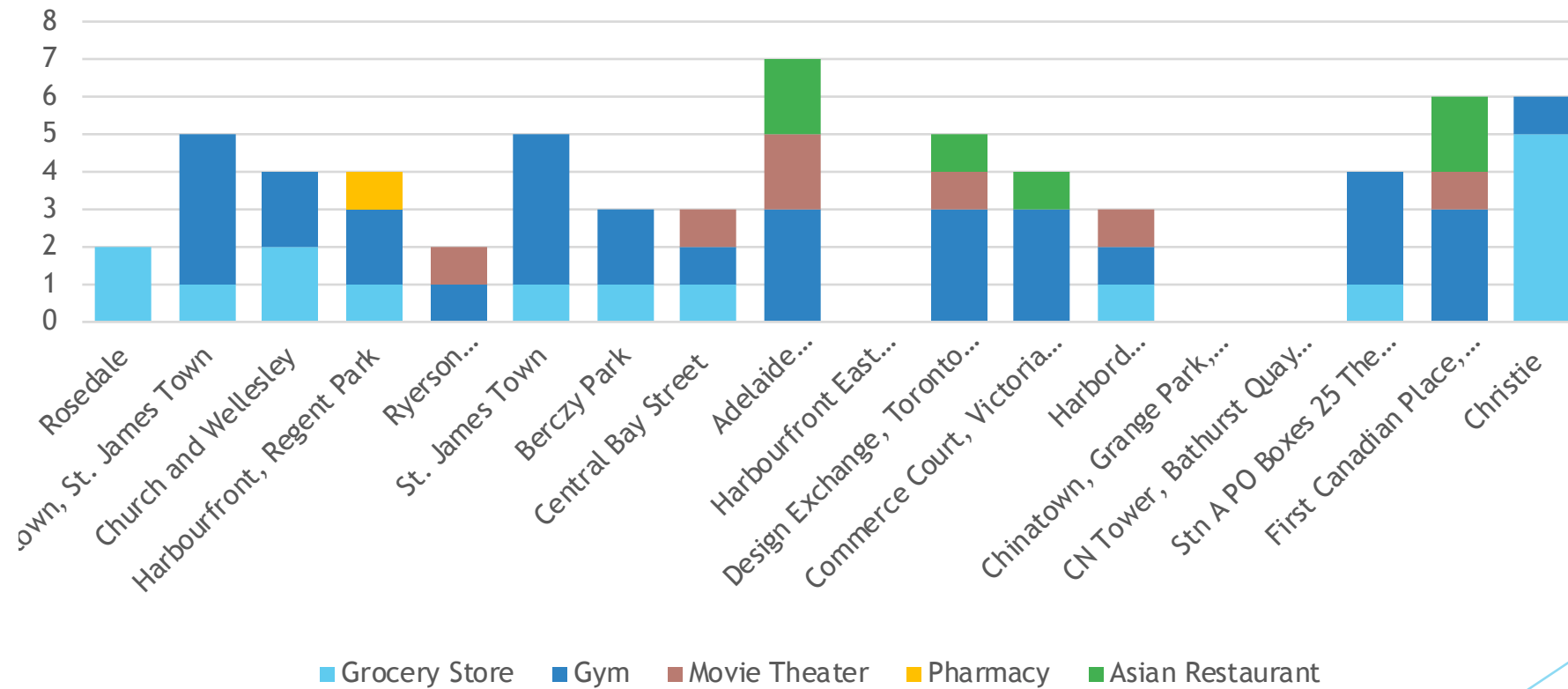
East Toronto



West Toronto



Downtown Toronto



Explanation...

- ▶ As above we have shown plot with Stacked Column of the different categories venue in Neighborhood.
- ▶ In vertical (y axis), shows the numbers of venues in neighborhood in horizontal (X axis).
- ▶ The plot represent the total number of different category venue available in each Neighborhood.
- ▶ By viewing and analyzing the plot, the user can further analysis on each neighborhood to finalize for resident in respective Borough.

Conclusion

- ▶ The main purpose of the presentation was to find the optimal location for a resident and we found the neighborhood's in Toronto that have all different venues that usually every user are looking while searching the location for resident.
- ▶ Per the user requirement, we have the list of neighborhood with available venues from which user can choice the location.