BEST PLACE TO SHIFT IN TORONTO CA

Presented by Harikrishna Yekbote

INTRODUCTION

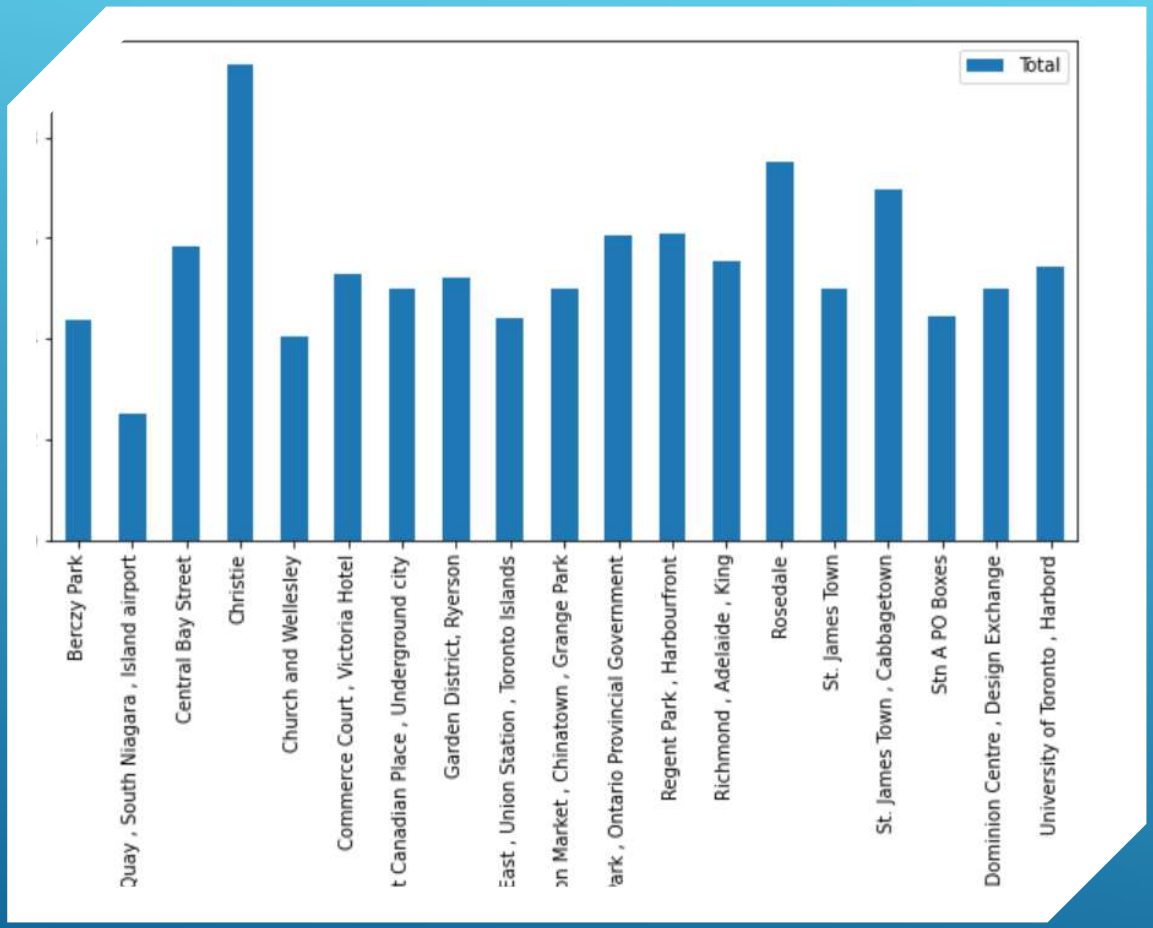
- The goal of the following data analysis is to figure out the best neighborhood to shift in Toronto,Canada due to a job change.
- **Points to be considered**
  - We need to ensure that all necessary places for livelihood necessary for a family are present within close vicinity of the area that we are planning to move into.
  - It should have the composure of all different venues necessary for any family.
  - It should be in optimum distance so that the commute to the office/home is not hectic.

SOURCE OF DATA

- In order to proceed with the analysis the following data sources have been used.
  - https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M (Wiki link for Canada regions with postal codes)
  - http://cocl.us/Geospatial_data (Geo coordinates data for different Neighborhood / Borough present around Toronto)
  - We will be using the Foursquare API in order to get all the related information around Toronto CA

METHODOLOGY

- We will work with the different neighborhoods present around Toronto.
- Then we will use Foursquare API in order to get list of venues surrounding Toronto with in some radius.
- Once we get the data we will split them based on Venue categories by hot encoding and then use the mean to determine which neighborhood is best.



RESULTS

- Based on the analysis done by using Hot encoding this is the results of the mean value of neighborhoods and their respective values.
- The plot show that the **Christie , Rosedale and St. James Town** are the areas are the better places to shift as they have good coverage of different venues needed for any family.

```
house_value = toronto_grouped[['Neighborhood','American Restaurant',
'Asian Restaurant',
'Athletics & Sports',
'Baby Store',
'Bakery',
'Bank',
'Beach',
'Bed & Breakfast',
'Boat or Ferry',
'Bookstore',
'Boutique',
'Breakfast Spot',
'Bubble Tea Shop',
'Burger Joint',
'Burrito Place',
'Café',
'Candy Store',
'Clothing Store',
'Coffee Shop',
'Comfort Food Restaurant',
'Convenience Store',
'Cupcake Shop',
'Deli / Bodega',
```

DISCUSSION

►During evaluation of the data we observed that we got 1228 venue categories out of which they all might not be necessary to have in close vicinity (For example Airport lounge services are not frequently used)

►So we considered only some of the categories that are necessary for a FAMILY so we separated the hot encoding values.

►A snippet of the Venue categories is attached in this slide.

CONCLUSION

By the analysis done, we can conclude that this model can be reused by updating the Venue categories and then reworking on the model to find out best place.

We can also include other data sources like housing related information in order to determine the best place by slightly modifying our model.


thank you