Capstone Project Presentation

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Agenda

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- 2. Data Selection
- 3. Methodology
- 4. Result
- 5. Conclusion

Problem Statement

Explorerz is a travel company which arranges travel plans around the world. Currently, it is working towards arranging a tourist visit in Toronto. For a successful travel plan it has to arrange suitable hotels and places to visit nearby. The company has to prepare an itinerary and self-exploration map for passengers containing a list of hotels, restaurants, cafeterias, and shopping centers.

Data Selection

Foursquare location data is used for this project. The data is further grouped by type of landscape such as hotels, restaurants, cafeterias, and shopping centers.

Data item:

Foursquare location data

Type of data:

JSON

Duration:

N/A

Description of data:

Foursquare location data is used to display the areas of interests, which is obtained by Foursquare API calls

Source:

https://foursquare.com

Methodology

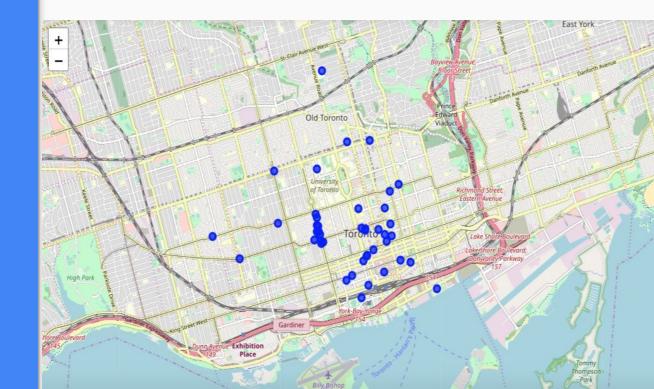
Majorly relied on Foursquare API to retrieve all venues of each neighborhoods, then group by each neighborhoods and to count how many venues before filter top 10 most common venue types of each neighborhoods

The script developed in this project does the following:

- Sets the location to Toronto
- Searches hotel using a foursquare search query
- Then it creates a hotel dataframe
- The dataframe is then cleansed
- · After this the unnecessary columns and rows are deleted
- Further the rows are deleted that whose category does not belong to hotel
- · Finally, the rows are deleted that contains duplicate hotel data
- The same procedure is repeated with restaurants, cafeteria, and shopping centers
- A dataframe is then created consisting of hotels, restaurants, cafeterias, and shopping centers
- A map is generated to visualize hotel neighborhoods including restaurants, cafeterias, and shopping centers

Result

Upon running the analysis, the machine learning algorithm listed the locations of interest and thereby formed an itinerary for tourists visiting Toronto.



Conclusion

- •For travelers:
 - Ease of finding nearby places
 - Efficient tour planning according to nearby places

- •For business owners:
 - •Would help business like Explorerz to serve their customers efficiently
 - •Would help in estimating the number of days to be spent in a specific location