Exploring Hotels Near CN Tower Toronto

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Introduction

There is a group of tourists from Indonesia that would like to go to Toronto for their holiday and they would like to stay at good rating hotel near CN Tower since there are lots of good restaurants in that area. This analysis is used to help them find the best place to stay during their visit to Toronto.

Data Section

Data Source

The FourSquare API is used to collect data about locations of the various hotels nearby CN Tower, which later on be used for acquiring the information of the hotels and their ratting. I used radius of 300 meters from CN Tower for this analysis.

Data Cleaning

Since there are some information do not relate to the analysis, hence data needs to be filtered and organized. Therefore, I made following changes in order to clean the data:

- Keep only columns that include venue name, and anything that is associated with location
- Function that extracts the category of the venue
- Filter the category for each row
- Clean column names by keeping only last term
- Remove data that not fall under hotel categories (Ex: restaurants, gym, co-working space, etc)
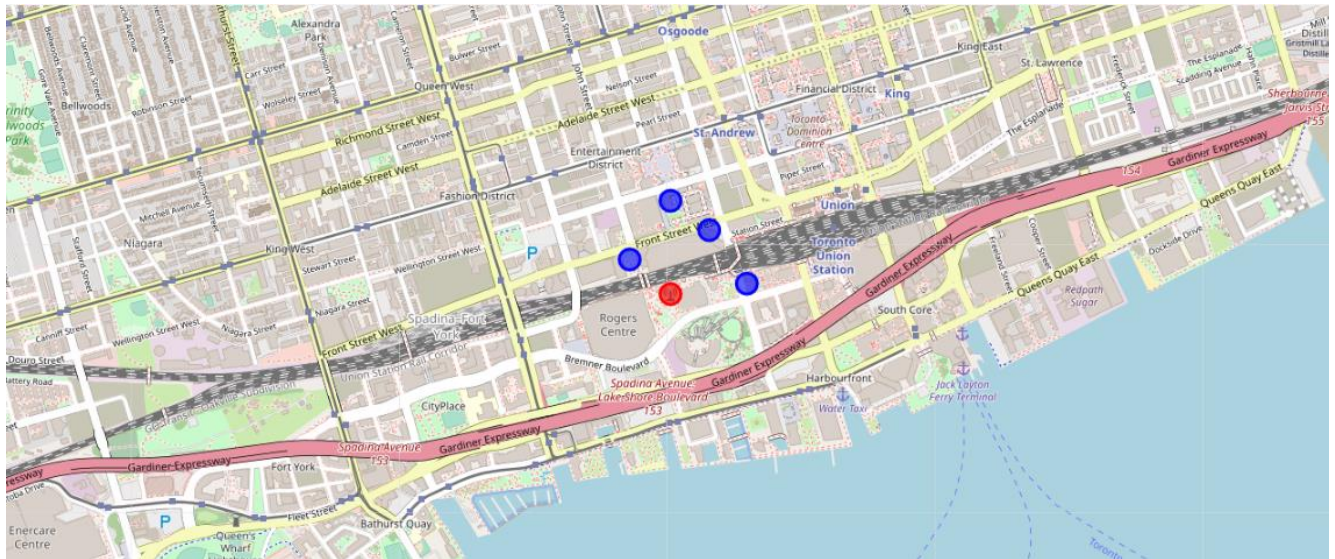
Methodology

Below is the step by step guide:

1. Import all the libraries we need to perform the analysis
2. Explore the hotels near CN Tower (within radius of 300 meters) by using FourSquare API.
3. Get the relevant part of JSON and transform it into a pandas dataframe
4. Do data processing to ensure all the data is related to my analysis. In this step, I define information of interest and filter dataframe
5. Visualize the hotels that are nearby
6. Get the ratting for each hotel by using each hotel's venue ID
7. Compare the ratting for each hotel

Results

Below is the visualization result after performing data processing:

*Dot in red color represents CN Tower, whereas dots in blue color represent the hotels.

As we can see, there are a total of four (4) hotels within radius of 300 meters from CN Tower which are:

name	categories	address
Delta Hotels by Marriott Toronto	Hotel	75 Lower Simcoe Street
Toronto Marriott City Centre Hotel	Hotel	1 Blue Jays Way
InterContinental Toronto Centre	Hotel	225 Front Street West
The Ritz-Carlton	Hotel	181 Wellington Street West

After that I checked the rating for each hotel and get the result as below:

Hotels	Ratting
Delta Hotels by Marriott Toronto	9.0
Toronto Marriott City Centre Hotel	7.4
InterContinental Toronto Centre	7.3
Ritz Carlton	8.6

Discussion & Recommendations

I noticed that the overall rating for both Delta Hotels by Marriott Toronto and Ritz Carlton are higher than 8.5, which means both of the hotels have a very high rating.

I recommend to take into account price and hotel facilities since both factors are not yet included in this analysis.

Conclusion

From the results above, Delta hotels by Marriott Toronto has the highest rating and it is located near CN Tower. Hence, we recommend the tourists to stay at **Delta Hotels by Marriott Toronto**.

However, this analysis is solely based on the location and ratting, in which we are assuming price is not a matter for the tourists. If we want to include both price and hotels' facilities as additional factors, then further study need to be conducted.