**Apartment selection tool using Foursquare data for new resident**

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**Problem Description**

This problem is based on personal experience , and looking back I wish I would have used this approach

An individual is relocating to a new city (Toronto) for his first job in Canada after graduating from university . Since the student is just starting his career journey, he wants to keep his expenses to a minimum . In order to keep the expenses minimum , he prefers to rely on public transportation for his office commute (travel time is not a constraint) , and find such an apartment complex (individual accommodation) where some of basic essential things required for living are in the vicinity of his apartment complex.

I have listed various essential things of interest as following , with the weightage in decreasing order from point 1 to point 5

1. **Public Transport (required)** : Bust stop, Train station etc
2. **Grocery**: To get basic essentials like vegetables, Water etc
3. Restaurants: To get lunch or Dinner as required
4. Shipping center: This includes print, pack and ship options
5. Park: A park in the vicinity of apartment to rejuvenate during holidays and weekends
6. Salon: To visit once every month or as required
7. Good apartment rating : This data would come from external website and would be consumed along with outputs from Data analysis which would be based on Fourquare data

I have created a selection of apartments looking through apartment rental websites and used that for this case

**The first 2 criterion are required (either one of the two, since that is required regularly)**

**Data Source Description**

In order to solve this business issue we would use following data sources

1.Foursquare data: This data would be primarily used for getting location specific data for Toronoto neighborhood . The venues of interest to us are those listed in the problem statement and the same would be referred while pulling data from Foursquare

2. Apartment rating data: Online websites that provide apartment rating information: This data would be used along with outputs from our Data analysis to make an informed decision about specific area and apartment in the neighborhood to select

**Methodology:**

**RESULTS:**

Using the data analysis performed the following three apartments are shortlisted for final selection through a site visit

1. Telegram Mews

2. Richmond Place

3. Park Dale

**CONCLUSION:**

In the current methodology we had to use apartment data from third party website, a improved version of this would include scraping data directly from such websites