

Describe the Data

In order to find the best location for my restaurant I need to find a location near subway stations as well as in the vicinity of other coffee shops and boutiques.

Goals:

Select a location in Burnaby BC that is near subway stations, boutiques, small restaurants, cafes and coffee shops.

Data and Methods:

- Finding Data of Subway Stations

I will download the GIS data of subway stations from City of Burnaby website and convert them into readable CSV file.

Data link:

https://data.burnaby.ca/datasets/b39d6277a1ec4edb8bba956664d30dc1_11/data

- Clustering Nearby Venues

I will use the Four Square's database to analyze the current state of restaurants. First, I will extract all the venues within 500 meters radius of subway stations in Burnaby and get the feel of the areas. Second, I will drill into the venue categories to find a station area that has most of the nearby venues that I would like to be near, such as cafes and coffee shops, restaurants and boutiques.

- Clustering Using Stations Characteristics Data

Once narrowing down the stations, I will retrieve the Subway Stations Characteristics data in Burnaby and compare the information of those data with clustered nearby venues. For example, the information of population and employment around stations would be key factors to determine the results.

Data link:

<https://www.translink.ca/Plans-and-Projects/Managing-the-Transit-Network/Transit-Service-Performance-Review.aspx>