1. Introduction Section :

Scenario:

I am a data scientist residing in Pune but few days back I was in Singapore, so I have bit knowledge about the city. I was living within walking distance to Downtown Telok Ayer MRT metro station and I enjoyed many amenities and venues in that area, such as various international cousin restaurants, cafes, food shops and entertainment. I have been offered a great opportunity to work for a leader firm in Manhattan, NY. I am very excited and I want to use this opportunity to practice my learning's in Coursera in order to answer relevant questions arisen. The key question is : How can I find a convenient and enjoyable place similar to mine in Singapore? Certainly, I can use available real estate apps and Google but the idea is to use and apply myself the learned tools during the course. In order to make a comparison and evaluation of the rental options in Manhattan NY, I must set some basis, therefore the apartment in Manhattan must meet the following demands:

- Apartment must be 2 or 3 bedrooms.
- Desired location is near a metro station in the Manhattan area and within 1.0 mile (1.6 km) radius.
- Price of rent not exceed $7,000 per month.
- Top amenities in the selected neighborhood shall be similar to current residence.
- Desirable to have venues such as coffee shops, restaurants Asian Thai, wine stores, gym and food shops
- As a reference, I have included a map of venues near current residence in Singapore.

Business Problem:

The challenge is to find a suitable apartment for rent in Manhattan NY that complies with the demands on location, price and venues. The data required to resolve this challenge is described in the following section 2, below.