

Relocation Recommendation in Singapore

Business problem : This project will be useful for agencies and their customers or also direct individuals who are in search of a right accommodation for themselves. For example, consider a person X planning to move to Singapore from Canada. He might be interested in looking for venues/neighborhoods similar to the one he stays in. For this requirement, the neighborhood clustering approach will serve as a great purpose.

Most of the people find difficulty in relocation especially when moving out of a country. The idea of relocating is quite exciting and also daunting in all senses. Relocations could be out of personal choice, work commitments or family commitments. Browsing for an accommodation in a different country can never be easy.

In the project, the city of Singapore is considered which is undoubtedly the most attracted for people across the world. However, it might be difficult for a non-local person to look for affordable and good locations with necessary amenities. It requires a lot of time and effort to do so and to decide the best location. We may sometimes fail to understand which location works better. There are many factors to be considered that play a critical role in choosing a location.

In the project, Singapore is segmented into different neighborhoods using the geographical coordinates of different buildings and the geographical coordinates of top 100 venues around a particular building. Finally, the neighborhoods are grouped into clusters.

Data : The main dataset used is 'Singapore_geo.csv' which provides information about all the postal codes. The latitude, longitude, postcode and building are extracted from the dataset. The dataset is cleaned by removing all the null values. Further, Foursquare API is used to extend the dataset and select random buildings for analysis.