



APPLIED DATA SCIENCE CAPSTONE

CAPSTONE PROJECT

February 2020

Week 4 - Assignment



Selection of Your Dream House in Hong Kong

I. Introduction

According to the latest Annual Demographia International Housing Affordability Survey [1], housing in Hong Kong is rated the most expensive and least affordable in the world. Buying a property of your own is probably one of the most important decisions people make in their lives, hence careful considerations must be made as you surely will not want to buy a property that is unsuitable to you.

Making a wish list of the criteria and features you want in your dream house is a good way to start, these criteria probably include:

- Districts/Areas of town you are interested to live in
- Preferred facilities available near your home
- Property price you can afford

Completing the wish list will help homebuyers to be clear on what they want. However, many homebuyers will just focus on one area of town to look for the property they want. There are also homebuyers especially for the first-time homebuyers who become frustrated that they cannot afford to live in their preferred area of towns and are not willing to settle for a property in a less desirable district as they are not familiar with the district.

But in fact, there are other areas in Hong Kong with properties that are with their preferred facilities available in which they can afford and with the convenient public transport systems in Hong Kong, even remote areas can be easily accessible.

The target audience of this project is for the people who would like to buy their dream house in Hong Kong. The objective of this project is to help these homebuyers to explore other district areas options which are with similar features to their preferred district instead of limiting their target property in just one area.

II. Data

Following data will be used for this project:

- List of districts: There are 18 geographically divided districts in Hong Kong which will be used for classifying the areas in Hong Kong [2]
- Hong Kong property statistics including the below: [3]
 - Average saleable areas of unit
 - Latest transaction records in Jan-2020 including price per square feet
- Most common venues in every 18 districts in Hong Kong from Foursquare which we will be used for classification [4]



REFERENCE

[1]: 15th Annual Demographia International Housing Affordability Survey: 2019

<http://www.demographia.com/dhi.pdf>

[2]: Hong Kong 18 districts map

http://opendata.esrichina.hk/datasets/eea8ff2f12b145f7b33c4eef4f045513_0?geometry=113.136%2C21.852%2C114.992%2C22.298

[3]: Hong Kong property statistics Jan-2020 from one of the largest property agency - Centaline Property Agency Limited

http://hkdata.centanet.com/BigData/hong-kong?field=T_POP&sort=default

[4]: Foursquare

<https://foursquare.com/city-guide>