

Capstone Project - The Battle of Neighborhoods

[Moving and buying a house in London, UK](#)

Created by

Kwan Chan

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1- Introduction:

1.1 Background:

London is the capital and largest city of the UK, as well as being one of the world's most important financial centers. Aside from being the world's most popular for work, its arts, commerce, education and media have also attracted a lot of individuals/families to move there for a living. Different aspects need to be considered when it comes to buying real estates: cost, safety and services of the neighborhood, services, convenience etc.

1.2 Business Problem:

As a foreigner thinking of moving to London, they most likely do not have an idea which area to look and how to start the house hunting. Therefore, it is crucial to provide the location data to the customer displayed on a map showing aspects of different areas ie. Crime rate, point of interest, house price.

2. Data Mining:

2.1 Data Acquisition:

- Necessary libraries and packages, they will be used to build the model for the analysis.
- A list of boroughs and areas in London (https://en.wikipedia.org/wiki/London_boroughs), it will be used to request the foursquare data about the venues in these areas.
- Geographical coordinates of the neighbourhoods in London, these will become the markers of the different areas on the map.
- Crime rate in London by borough (<https://www.finder.com/uk/london-crime-statistics>)
- London Map from folium, this will be the base map where the areas will be superimposed onto.
- London house prices by borough (<https://www.theweek.co.uk/99093/london-house-prices-which-boroughs-are-falling-and-which-are-on-the-rise>)