**IBM Coursera Capstone Project – The Battle of Neighbourhoods**

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**Introduction – Business Case**

This project aims to select the safest borough in London based on the total crimes, explore the neighborhoods of that borough to find the 10 most common venues in each neighborhood and finally cluster the neighborhoods using k-mean clustering.

This report will be targeted to people who are looking to relocate to London. Inorder to finalise a neighborhood to hunt for an apartment, safety is considered as a top concern when moving to a new place. If you don’t feel safe in your own home, you’re not going to be able to enjoy living there. The crime statistics will provide an insight into this issue.

We will focus on the safest borough and explore its neighborhoods and the 10 most common venues in each neighborhood so that the best neighborhood suited to an individual's needs can be selected.[¶](http://localhost:8888/notebooks/Final_CapstoneProject_DS.ipynb#We-will-focus-on-the-safest-borough-and-explore-its-neighborhoods-and-the-10-most-common-venues-in-each-neighborhood-so-that-the-best-neighborhood-suited-to-an-individual's-needs-can-be-selected.)

**Data**

#### Based on definition of our problem, factors that will influence our decision are:

#### The total number of crimes committed in each of the borough during the last year.

#### The most common venues in each of the neighborhood in the safest borough selected.

**About this file :**

* lsoa\_code: code for Lower Super Output Area in Greater London.
* borough: Common name for London borough.
* major\_category: High level categorization of crime
* minor\_category: Low level categorization of crime within major category.
* value: monthly reported count of categorical crime in given borough
* year: Year of reported counts, 2008-2016
* month: Month of reported counts, 1-12

Data set URL: <https://www.kaggle.com/jboysen/london-crime>