

Capstone Project – The battle of Neighborhoods

Introduction: Business Problem

In this Project, our aim is select the safest borough in London and then explore its neighborhood for popular common venues and finally cluster the neighborhoods.

This report is for stakeholders who are keen to open a new restaurant or people who are planning to relocate to a different borough or neighborhood. As safety is of paramount importance, we will look at the safest boroughs and their neighborhoods. This would help stakeholders and people make a well-informed decision based on their preference.

Data

The data acquired is London Crime statistics from Kaggle which covers the number of criminal reports by month, LSOA borough, and major/minor category from Jan 2008 – Dec 2016. The data set contains the following attributes/columns

- **lsoa_code**- lower super output area in London
- **borough** – London borough
- **major_category** – Higher level of categorization of crime
- **minor_category** – Lower level of categorization of crime
- **value** – Count of categorical crime
- **year** – Year of crime reported
- **month** – Month of crime reported

Based on the above dataset, we are going to evaluate each of the borough based on the number of crimes committed (major_category) for 2016. Among the borough that have the least crime count, we are going to explore the surroundings using Foursquare API (locations). Finally, we will be able to list all the boroughs that are safest and also list their surrounding venues.

