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SAFEST PLACE IN LONDON

An Analytic guide for place choosing in London



Background

There are many of these brilliant young people who leave the countries of the south every year for a safer place in Europe, fleeing all kinds of insecurity.

A man in a light-colored suit and dark trousers stands on a large, detailed map of Europe. He is holding a black briefcase in his right hand and pointing his left index finger upwards. The map shows various geographical features, including the English Channel, the Bay of Biscay, and the Atlantic Ocean. The background is a blurred view of the map.

Probleme

This project aims to help them better select the best place in Europe, satisfying the type of security (economic, food, health, etc.) with the environment that suits them. This start remains a test on the London Bourough, depending on the crime rate.

DATA SOURCE.-



WIKIPEDIA

List of London Boroughs (webscrapping)
List of Neighborhoods in the Royal Borough of
Kingston upon Thames (created from Cratch)



KAGGLE

London Crie dataset (Only most recent year is used-
2016)

DATA CLEANING.-

STEP 1

From the London Crime Data, Only Crimes during 2016 are selected, and then grouped by borough in a pivot table.
The additionnal data was scrapped in a tabular format with Beautifulsoup

STEP 2

The two data are merged on the Bourough names to form a new dataset in order to visualize data in each bourough and determine the safest ones

STEP 3

The Safest Borough found, we search for all his neighborhoods from Google Api, and also all the venues for these Neighborhoods with their coordinates obtained with Foursquare

STEP 4

Using the new dataset, we generate the 10 most common venues for each neighborhood and then cluster similar neighborhoods

METHODOLOGY

EXPLORATORY DATA ANALYSIS

SUMMARY SATISTICS

- 33 Major Category crimes reported in 2016
- Drugs and Robbery are the lowest
- Theft and Handling are the highest ones

VISUALIZING

Comparing Crime rates by borough

- Westminster, followed by Lambeth and Southwark are the borough with the Highest rate, with Westminster most significant than the others.
- Kingston upon Thames is the safest place with the lower rate.

MODELING

5 Clusters are generated by K-means from the 13 neighborhoods in order to get similar neighborhood based on their most common venues