# DR. RAMMANOHAR LOHIA AVADH UNIVERSITY, AYODHYA, U.P (224001)

## **INSTITUTE OF ENGINEERING & TECHNOLOGY**



## SCOUTING FOR THE SAFEST AREA

#### PROJECT REPORT

# SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF

## **BACHELOR OF TECHNOLOGY**

(COMPUTER SCIENCE & ENGINEERING)

(2017-2021)

#### SUBMITTED BY:

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UNDER THE GUIDANCE OF Er. ASHISH PANDEY

## **DECLARATION**

We hereby declare that the project "SCOUTING FOR THE SAFEST AREA" is an authentic work carried out at Institute of Engineering & Technology, Dr. Rammanohar lohia Avadh University, Ayodhya(U.P.) as requirements for the award of degree of B.Tech (Computer Science & Engineering) under the guidance of Er. Ashish Pandey.

The information and data given in the project report is authentic and original to the best of my knowledge. The results embodied in this report have not been submitted to any other University or Institute for the award of any degree or diploma.

## **Signature of students:**

HIYA (17115) ZAHIDA BANO (17144) VANSHIKA TIWARI (17139)

VAQASH KHAN (17140)

Date:



## **CERTIFICATE-1**

This is to certify that major project entitled "SCOUTING FOR THE SAFEST AREA" for the award of degree of "BACHELOR OF TECHNOLOGY (CSE)" at "IET Dr. RML AVADH UNIVERSITY, AYODHYA" is a bonafide project work carried out by VAQASH KHAN (17140) under my supervision and guidance. This assistance and help during the course of investigation have been fully acknowledged.

AYODHYA SEPTEMBER, 2021

Project Guide



## **CERTIFICATE-2**

It is to certify to HIYA (17115), ZAHIDA BANO (17144), VANSHIKA TIWARI (17139), VAQASH KHAN (17140) carried out the project work presented in this major project entitled "SCOUTING FOR THE SAFEST AREA" for the award of degree of "BACHELOR OF TECHNOLOGY" Computer Science & Engineering "IET. Dr. RML AVADH UNIVERSITY, AYODHYA" under the supervision and guidance. The project embodies results of original work and studies carried out by students themselves and the content of the project from basic for any other degree to candidate or anybody else from this or any other institution/university.

INTERNAL EXAMINER (CSE) EXTERNAL EXAMINER PROJECT GUIDE Er. CHANDAN ARORA SIR

#### **ACKNOWLEDGEMENT**

Many lives and destinies are destroyed due to the lack of proper guidance, directions & opportunities. It is in this respect we feel that we are in much better condition today due to the continuous process of motivation & focus provided by our parents & teachers in general. The process of completion of this project was a tedious job & requires care & support at all stages.

We are eternally grateful to the honorable director of IET, Dr. R.P. Mishra & head of department of Computer Science and Engineering, Dr. Lokendra for providing us the opportunity & infrastructure to complete the project as a partial fulfilment of B.Tech degree.

There are no exact words to express our regards and legitimate gratitude to all esteemed techno personality faculties for their guidance throughout this project despite their busy schedule.

Our sincere thanks to our batch mates, who have provided us with innumerable discussion on many technicalities and friendly tips without their friendly support these activities would have been much difficult to complete successfully.

It is because of these people that we are able to complete this project work successfully 1 am also thankful to all visible and invisible hands of cooperation who helped us to complete this project with a feeling of success.

## **ABSTRACT**

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 neighbourhoods using k-means clustering. It can be used by expats who are considering relocating to London and are interested in identifying the safest borough in London to explore it's neighbourhoods and common venues.

The project can be executed for any location, provided the data is adequate according to our model's pre-conditions.

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#### INTRODUCTION

#### Background:

The average person moves around five times in their lifetime and the majority of relocation takes place around the age of 18-30, in the hunt of an establishment. In the case of British people, the number increases to a whopping ten times. This brings us to the question: "Do people move until they find a place to settle down where they truly feel happy, or do our wants and needs change over time, prompting us to eventually leave a town we once called home for a new area that will bring us satisfaction? Or, do we too often move to a new area without knowing exactly where we're getting into, forcing us to turn tail and run at the first sign of discomfort?"

To minimize the chances of this happening, we should always do proper research when planning our next move in life. Consider the following factors when picking a new place to live, so you don't end up wasting your valuable time and money making a move you'll end up regretting:

- *Safety* is the top concern when moving to a new area. If you don't feel safe in your own home, you're not going to be able to enjoy living there.
- When buying a house, *location* is perhaps the most important thing to consider. You can make an ugly house attractive but you can't make a bad location great.
- When you are scouting for a location, you should also inspect the *neighbourhood*. It's important to look for a house with a good residential feel.
- A crucial factor to consider is accessibility of basic infrastructure in the area, such as, roadway/train network, recreational parks, schools and colleges etc.

#### Problem:

The crime statistics dataset of London found on Kaggle has crimes in each borough of London from 2008 to 2016. The year 2016 being the latest we will be considering the data of that year which is actually old information as of now. The crime rates in each borough may have changed over time.

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 neighbourhoods using k-means clustering. It can be used by expats who are considering relocating to London and are interested in identifying the safest borough in London to explore it's neighbourhoods and common venues.

The project can be executed for any location, provided the data is adequate according to our model's pre-conditions.

#### **EXISTING & PROPOSED METHODOLOGY**

The conventional way of finding a pleasant dwelling is letting your acquaintances know that you are interested in residing in a good neighbourhood, let them do the search for you. Unfortunately, this type of search will end up with a result which may not suit your needs.

A profession called "estate agent" is common to see while one searches for habitation. They do some of your property hunting legwork and give you a heads up when they feel something is upto your standard. If a place is upto the mark, there are high chances that eventually many people are already eyeing it.

Another more contemporary solution to this are the plethora of property search websites. These sites offer you an image of the localities, most of which are travestic, along with a few more descriptions of the area.

Ironically, none of these sources would give you an insight on the misdeeds in that region. People get to know what's happening around them when they ultimately move-in to that place or if something illicit happens to them.

In the proposed model, the best thing is that the focus is on looking for a more safe and secure locale. We are analyzing the crime data in order to single out the prime zone. The choices of neighborhoods may vary from person to person, so, the model will suggest appropriate venues according to the user's liking, such as, gyms, bars, restaurants, etc. It is always helpful to make use of technology to stay one step ahead. Expectantly, this model will turn out to be a notable upgrade for all the existing methodologies.

#### **BLOCK DIAGRAM**

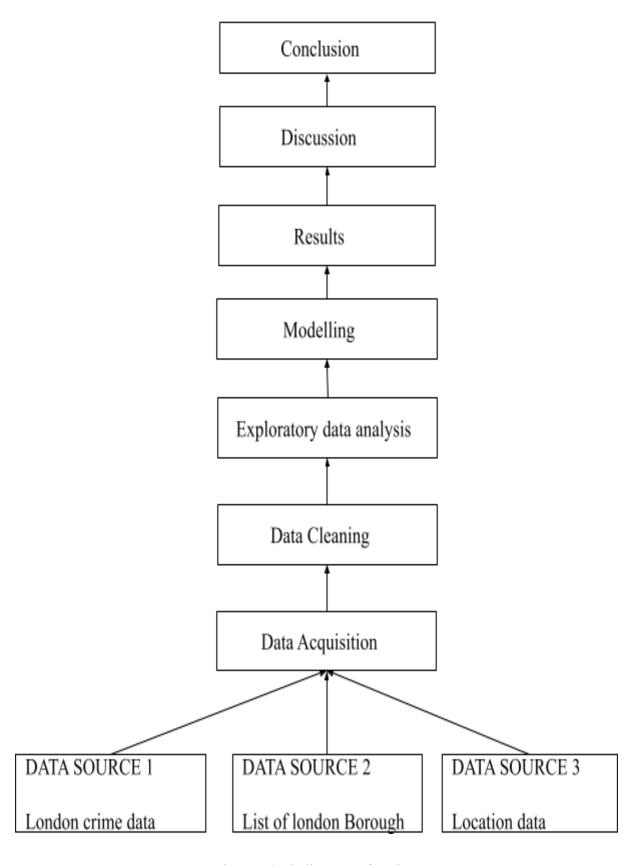


Fig. 1 Block diagram of project

#### METHODOLOGY USED

**DATA ACQUISITION:** Data acquisition has been understood as the process of gathering, filtering, and cleaning data before the data is put in a data warehouse or any other storage solution for further processing.

The data for our project is a combination of three sources:

The first data source of the project uses London crime data (2008-16) from kaggle.com.
 The year 2016 being the latest we will be considering the data of that year which is actually old information as of now.

The dataset contains the following columns:

- *Isoa 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 the major category.
- *value*: Monthly reported count of categorical crime in a given borough.
- year: Year of reported counts, 2008-2016.
- *month:* Month of reported counts, 1-12.

URL: <a href="https://www.kaggle.com/jboysen/london-crime">https://www.kaggle.com/jboysen/london-crime</a>

- 2. The second data source is scraped from wikipedia that contains the list of London boroughs. This page also contains additional information about boroughs.
  - Borough: The names of the 33 London boroughs.
  - *Inner:* Categorizing the borough as an Inner London borough or an Outer London Borough.

- *Status:* Categorizing the borough as Royal, City or other borough.
- Local authority: The local authority assigned to the borough.
- *Political control*: The political party that controls the borough.
- Headquarters: Headquarters of the Boroughs.
- Area (sq mi): Area of the borough in square miles.
- Population (2013): The population in the borough recorded during the year 2013.
- *Co-ordinates:* The latitude and longitude of the boroughs.
- Nr. in map: The number assigned to each borough to represent visually on a map.

URL: https://en.wikipedia.org/wiki/List of London boroughs

- 3. The third data source is the list of Neighborhoods in the Royal Borough of Kingston upon Thames as found on a wikipedia page.
  - *Neighborhood:* Name of the neighborhood in the Borough.
  - Borough: Name of the Borough.
  - Latitude: Latitude of the Borough.
  - Longitude: Longitude of the Borough

URL :

https://en.wikipedia.org/wiki/List\_of\_districts\_in\_the\_Royal\_Borough\_of\_Kingston\_up on\_Thames

**DATA CLEANING:** Data cleansing or data cleaning is the process of detecting and correcting (or removing) corrupt or inaccurate records from a record set, table, or database and refers to identifying incomplete, incorrect, inaccurate or irrelevant parts of the data and then replacing, modifying, or deleting the dirty or coarse data.

The data cleaning of each of three sources will be done separately.

- From the London crime data, the crimes during the most recent year (2016) are only selected. The major categories of crime are pivoted to get the total crimes per the boroughs for each major category.
- The second data is scraped from a wikipedia page using the Beautiful Soup library in python. Using this library we can extract the data in the tabular format as shown in the website. After the web scraping, string manipulation is required to get the names of the boroughs in the correct form.
- The two datasets are merged on the Borough names to form a new dataset that
  combines the necessary information in one dataset. The purpose of this dataset is to
  visualize the crime rates in each borough and identify the borough with the least crimes
  recorded during the year 2016.
- After visualizing the crime in each borough we can find the borough with the lowest crime rate and hence tag that borough as the safest borough.
- The third source of data is acquired from the list of neighborhoods in the safest borough
  on wikipedia. This dataset is created from scratch, the pandas data frame is created with
  the names of the neighborhoods and the name of the borough with the latitude and
  longitude left blank.
- The coordinates of the neighborhoods are obtained using Google Maps API geocoding to get the final dataset.
- The new dataset is used to generate the venues for each neighborhood using the Foursquare API.

**EXPLORATORY DATA ANALYSIS:** Exploratory data analysis is an approach to analyzing data sets to summarize their main characteristics, often with visual methods. A statistical model

can be used or not, but primarily EDA is for seeing what the data can tell us beyond the formal modeling or hypothesis testing task.

Statistical summary of crimes: In this we will analyse three important paradigms in order to know the safest place to live.

- Boroughs with the highest crime rates.
- Boroughs with the lowest crime rates.
- Neighborhoods.

#### **MODELLING**

- We can find all the venues within a 500 meter radius of each neighborhood by connecting to the *Foursquare API*. This returns a json file containing all the venues in each neighborhood which is converted to a pandas dataframe. This data frame contains all the venues along with their coordinates and category.
- One hot encoding is done on the venues data. (One hot encoding is a process by which
  categorical variables are converted into a form that could be provided to ML algorithms
  to do a better job in prediction)
- Clustering: This algorithm is used to categorize a group of variables into similar types. Clustering is useful in data visualization as well. It is very much useful when there is some unique value available in a dataset. This algorithm is very much popular in today's world as it is an unsupervised algorithm and it is known as the best algorithm for raw datasets.
- To help people find similar neighborhoods in the safest borough we will be clustering similar neighborhoods using K means clustering which is a form of unsupervised machine learning algorithm that clusters data based on predefined cluster size.

 The reason to conduct a K- means clustering is to cluster neighborhoods with similar venues together so that people can shortlist the area of their interests based on the venues/amenities around each neighborhood.

#### RESULTS

After running the K-means clustering we can access each cluster created to see which neighborhoods were assigned to each of clusters.

#### **DISCUSSION**

The aim of this project is to help people who want to relocate to the safest borough in London, expats can choose the neighborhoods to which they want to relocate based on the most common venues in it.

#### **CONCLUSION**

This project helps a person get a better understanding of the neighborhoods with respect to the most common venues in that neighborhood. It is always helpful to make use of technology to stay one step ahead, i.e., finding out more about places before moving into a neighborhood.

#### HARDWARE REQUIREMENTS

- 1. *CPU*: Quad core processor or higher.
- 2. RAM: 4 GB DD4 or higher.
- 3. STORAGE: At least 250 GB HDD (you can use SSD for faster access of huge data).

#### **SOFTWARE REQUIREMENTS**

- 1. Programming Language: Python (3.8)
- 2. Anaconda
- 3. *IDE* : Jupyter notebook
- 4. *API* : FourSquare, Google Maps

Libraries needed to be installed on python:

- Geopy
- Geocoder
- Folium
- Pandas
- Numpy
- Beautiful Soup
- Requests
- Images
- HTML
- Nominatim

## Project: - Scouting for the Safest Area

#### **Table of contents**

- Introduction: Business Problem
- Data
- Methodology
- Analysis
- · Results and Discussion
- Conclusion

#### **Introduction: Business Problem**

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.

#### **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.

Following data sources will be needed to extract/generate the required information:

- Part 1: Preprocessing a real world data set from Kaggle showing the London Crimes from 2008 to 2016: A dataset consisting of the crime statistics of each borough in London obtained from Kaggle
- Part 2: Scraping additional information of the different Boroughs in London from a Wikipedia page.: More information regarding the

boroughs of London is scraped using the Beautifulsoup library

 Part 3: Creating a new dataset of the Neighborhoods of the safest borough in London and generating their co-ordinates.: Co-ordinate of neighborhood will be obtained using Google Maps API geocoding

## Part 1: Preprocessing a real world data set from Kaggle showing the London Crimes from 2008 to 2016

#### **London Crime Data**

About this file

- Isoa\_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: <a href="https://www.kaggle.com/jboysen/london-crime">https://www.kaggle.com/jboysen/london-crime</a>)

#### Import necessary libraries

```
import requests # library to handle requests
import pandas as pd # library for data analsysis
import numpy as np # library to handle data in a v
ectorized manner
import random # library for random number generati
from bs4 import BeautifulSoup # library for web sc
rapping
#!conda install -c conda-forge geocoder --yes
import geocoder
#!conda install -c conda-forge geopy --yes
from geopy.geocoders import Nominatim # module to
convert an address into latitude and longitude va
Lues
# libraries for displaying images
from IPython.display import Image
from IPython.core.display import HTML
# tranforming json file into a pandas dataframe li
brary
from pandas.io.json import json normalize
#!conda install -c conda-forge folium=0.5.0 --yes
import folium # plotting library
print('Folium installed')
print('Libraries imported.')
```

#### **Define Foursquare Credentials and Version**

Make sure that you have created a Foursquare developer account and have your credentials handy

Your credentails:

CLIENT\_ID: RØ1LINGO2WC45KLRLKT3ZHU2QENAO2IPRK2N2ELO HRNK4P3K

CLIENT\_SECRET:4JT1TWRMXMPLX5IOKNBAFU3L3ARXK4D5JJDPF K1CLRZM2ZVW

#### Read in the dataset

```
In [3]: # Read in the data
df = pd.read_csv("london_crime_by_lsoa.csv")
```

Out[4]:

	Isoa_code	borough	major_category	minor_categor
0	E01001116	Croydon	Burglary	Burglary in Othe Buildings
1	E01001646	Greenwich	Violence Against the Person	Other violence
2	E01000677	Bromley	Violence Against the Person	Other violence
3	E01003774	Redbridge	Burglary	Burglary in Othe Buildings
4	E01004563	Wandsworth	Robbery	Personal Property
4				<b>•</b>

#### Accessing the most recent crime rates (2016)

```
In [5]: # Taking only the most recent year (2016) and drop
ping the rest
df.drop(df.index[df['year'] != 2016], inplace = Tr
ue)
# Removing all the entires where crime values are
```

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```
null
df = df[df.value != 0]

# Reset the index and dropping the previous index
df = df.reset_index(drop=True)
```

In [6]: # Shape of the data frame
 df.shape

Out[6]: (392042, 7)

In [7]: # View the top of the dataset
 df.head()

Out[7]:

	Isoa_code	borough	major_category	minor_category
0	E01004177	Sutton	Theft and Handling	Theft/Taking of Pedal Cycle
1	E01000733	Bromley	Criminal Damage	Criminal Damage To Motor Vehicle
2	E01003989	Southwark	Theft and Handling	Theft From Shops
3	E01002276	Havering	Burglary	Burglary in a Dwelling
4	E01003674	Redbridge	Drugs	Possession Of Drugs
◀				•

#### Change the column names

Out[8]:

		LSOA_Code	Borough	Major_Category	Minor_Catego
	0	E01004177	Sutton	Theft and Handling	Theft/Taking of Pedal Cycle
	1	E01000733	Bromley	Criminal Damage	Criminal Damage To Motor Vehicle
	2	E01003989	Southwark	Theft and Handling	Theft From Shops
	3	E01002276	Havering	Burglary	Burglary in a Dwelling
	4	E01003674	Redbridge	Drugs	Possession Of Drugs
ľ	◀				<b>)</b>

In [9]: # View the information of the dataset

```
ar.into()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 392042 entries, 0 to 392041
Data columns (total 7 columns):
LSOA_Code 392042 non-null object
Borough 392042 non-null object
Major_Category 392042 non-null object
Minor_Category 392042 non-null object
No_of_Crimes 392042 non-null int64
Year 392042 non-null int64
                            392042 non-null int64
Year
               392042 non-null int64
Month
dtypes: int64(3), object(4)
memory usage: 20.9+ MB
```

#### Total number of crimes in each Borough

In [10]:	df['Borough'].value_cou	unts()	
Out[10]:	Lambeth	17605	
	Southwark	16560	
	Croydon	16254	
	Newham	15622	
	Ealing	15284	
	Tower Hamlets	15219	
	Brent	14980	
	Barnet	14668	
	Hackney	14392	
	Lewisham	14235	
	Haringey	14202	
	Enfield	13658	
	Wandsworth	13498	
	Westminster	13383	
	Islington	13116	
	Greenwich	12750	
	Camden	12632	
	Hillingdon	12417	
	Hounslow	12316	
	Waltham Forest	12121	
	Bromley	11980	
	Redbridge	11490	
	Hammersmith and Fulham	10281	
	Barking and Dagenham	9784	
	Havering	9699	
	Kensington and Chelsea	9653	
	Harrow	8257	
	Bexley	8245	
	Merton	8223	
	Richmond upon Thames	7199	
	Sutton	6823	
	Kingston upon Thames	5374	
	City of London	122	
	-	int64	
	3 7 JF -		

#### The total crimes per major category

In [11]:	df['Major_Category'].value_co	ounts()
Out[11]:	Theft and Handling	129159
	Violence Against the Person	123050
	Criminal Damage	48584
	Rurglary	43020

Drugs 21782 Robbery 14889 Other Notifiable Offences 11558 Name: Major\_Category, dtype: int64

#### Pivoting the table to view the no. of crimes for each major category in each Borough

```
In [12]:
         London crime = pd.pivot table(df,values=['No of Cr
         imes'],
                                         index=['Borough'],
                                         columns=['Major Cat
         egory'],
                                         aggfunc=np.sum,fill
          value=0)
         London_crime.head()
```

Out[12]:

	No_of_Crimes				
Major_Category	Burglary	Criminal Drugs		Other Notifiable Offences	Rot
Borough					
Barking and Dagenham	1287	1949	919	378	534
Barnet	3402	2183	906	499	464
Bexley	1123	1673	646	294	209
Brent	2631	2280	2096	536	919
Bromley	2214	2202	728	417	369

In [13]: # Reset the index London crime.reset index(inplace = True)

# Total crimes per Borough In [14]: London\_crime['Total'] = London\_crime.sum(axis=1) London\_crime.head(33)

Out[14]:

	Borough	No_of_Crimes		
Major_Category		Burglary	Criminal Damage	Drugs
0	Barking and Dagenham	1287	1949	919
1	Barnet	3402	2183	906
2	Bexley	1123	1673	646
3	Brent	2631	2280	2096
4	Bromley	2214	2202	728
				l l

5	Camden	2652	1935	1493
6	City of London	2	2	10
7	Croydon	2738	3219	1367
8	Ealing	2492	2562	1355
9	Enfield	2541	2136	1063
10	Greenwich	1780	2476	867
11	Hackney	2719	1981	1353
12	Hammersmith and Fulham	1531	1408	1321
13	Haringey	2474	2233	1540
14	Harrow	1994	1212	473
15	Havering	1826	1804	718
16	Hillingdon	2229	2470	1042
17	Hounslow	1808	2213	1086
18	8 Islington		1903	1777
19 Kensington and Chelsea		1449	1051	1680
20	20 Kingston upon Thames		1054	743
21	Lambeth	3087	2764	2738
22	Lewisham	2071	2351	1617
23	Merton	1419	1418	466
24	Newham	2115	2496	1684
25	Redbridge	1997	1650	1017
26	Richmond upon Thames	1359	1148	320
27	Southwark	2946	2621	1838
28	Sutton	1233	1316	461
29	Tower Hamlets	2794	2357	1629
30	Waltham Forest	1873	1989	1042
31	Wandsworth	2351	1836	870
32	Westminster	3218	2179	2049
4				<b>&gt;</b>

#### Removing the multi index so that it will be easier to merge

In [15]: London\_crime.columns = London\_crime.columns.map(''
 .join)

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London\_crime.head()

Out[15]:

	Borough	No_of_CrimesBurglary	No_of_CrimesCrimin
0	Barking and Dagenham	1287	1949
1	Barnet	3402	2183
2	Bexley	1123	1673
3	Brent	2631	2280
4	Bromley	2214	2202
4			<b>)</b>

#### Renaming the columns

Out[16]:

	Borough	Burglary	Criminal Damage	Drugs	Other Notifiable Offences	Robbe
0	Barking and Dagenham	1287	1949	919	378	534
1	Barnet	3402	2183	906	499	464
2	Bexley	1123	1673	646	294	209
3	Brent	2631	2280	2096	536	919
4	Bromley	2214	2202	728	417	369
4						•

In [17]: # Shape of the data set
London\_crime.shape

Out[17]: (33, 9)

In [18]: # View the Columns in the data frame
 # London\_crime.columns.tolist()

## Part 2: Scraping additional information of the different Boroughs in London from a Wikipedia page

Using Beautiful soup to scrap the latitude and longitiude of the boroughs in London

URL: <a href="https://en.wikipedia.org/wiki/List\_of\_London\_boroughs">https://en.wikipedia.org/wiki/List\_of\_London\_boroughs</a>

(https://en.wikipedia.org/wiki/List\_of\_London\_boroughs)

<u>,....p = ..., = .........p = = ...</u>

```
# getting data from internet
wikipedia_link='https://en.wikipedia.org/wiki/List
of London boroughs'
raw_wikipedia_page= requests.get(wikipedia_link).t
# using beautiful soup to parse the HTML/XML code
soup = BeautifulSoup(raw wikipedia page,'xml')
print(soup.prettify())
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html>
<html class="client-nojs" dir="ltr" lang="en">
 <head>
  <meta charset="UTF-8"/>
  <title>
  List of London boroughs - Wikipedia
  </title>
  <script>
   document.documentElement.className = document.do
cumentElement.className.replace( /(^|\s)client-nojs
(\s|\$)/, "\$1client-js\$2");
  </script>
  <script>
   (window.RLQ=window.RLQ||[]).push(function(){mw.c
onfig.set({"wgCanonicalNamespace":"","wgCanonicalSp
ecialPageName":false, "wgNamespaceNumber":0, "wgPageN
ame":"List_of_London_boroughs","wgTitle":"List of L
ondon boroughs", "wgCurRevisionId":881899861, "wgRevi
sionId":881899861, "wgArticleId":28092685, "wgIsArtic
le":true,"wgIsRedirect":false,"wgAction":"view","wg
UserName":null,"wgUserGroups":["*"],"wgCategories":
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    </div>
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     Jump to navigation
    </a>
    <a class="mw-jump-link" href="#p-search">
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on-boroughs.svg" title="Enlarge"/>
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         Map of the 32 London boroughs and the City
of London.
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       </div>
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       </a>
       within
       <a href="/wiki/Greater_London" title="Greate</pre>
r London">
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       <a href="/wiki/London boroughs" title="Londo"
n boroughs">
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       </a>
       <a href="/wiki/City_of_London" title="City o</pre>
f London">
        City of London
       </a>
       . The London boroughs were all created on 1
April 1965. Upon creation, twelve were designated
       <a href="/wiki/Inner_London" title="Inner Lo</pre>
ndon">
        Inner London
       boroughs and the remaining twenty were desig
nated
       <a href="/wiki/Outer_London" title="Outer Lo
ndon">
        Outer London
       \langle a \rangle
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```
boroughs. The
      <a href="/wiki/Office for National Statistic
s" title="Office for National Statistics">
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      has amended the designations of three boroug
hs for statistics purposes only. Three boroughs hav
e been granted the designation
      <a class="mw-redirect" href="/wiki/Royal bor</pre>
ough" title="Royal borough">
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      </a>
      and one has
      <a href="/wiki/City status in the United Kin
gdom" title="City status in the United Kingdom">
       city status
      </a>
       . For planning purposes, in addition to the
boroughs and City there are also two active develop
ment corporations, the
      <a href="/wiki/London_Legacy_Development_Cor</pre>
poration" title="London Legacy Development Corporat
ion">
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      </a>
      and
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      </span>
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       Status
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       Headquarters
       Area (sq mi)
       Population (2013 est)
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ial photos, and other data for this location">
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             <span style="display:none">
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               </span>
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              )
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itle="Conservative Party (UK)">
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ial photos, and other data for this location">
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             cenan class="longitude">
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/spail crass- rollercane >
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          </a>
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Enfield London Borough Council
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              <span class="fn org">
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ith and Fulham" title="London Borough of Hammersmit
h and Fulham">
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         , Station Road
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ounclow Civic Controlamniaction-aditlamninadlink-1"
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Coursera Capstone/Capstone Project - The Battle of the Neighborhoods - London Neighborhood Clustering.jpynb at c72c5916e...

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        17
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       Political control
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Population
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              <b>
              С
              </b>
             </i>
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           and is not a London Borough but can be c
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r London">
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57 LI 2
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ondon boroughs">
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Historical
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f_London" title="Sheriffs of the City of London">
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Parsed by mw1269
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Cache expiry: 2592000
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Real time usage: 0.395 seconds
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Expensive parser function count: 2/500
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Unstrip post-expand size: 10101/5000000 bytes
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Lua time usage: 0.111/10.000 seconds
Lua memory usage: 2.75 MB/50 MB
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Transclusion expansion time report (%,ms,calls,temp
late)
100.00% 279.718
                         1 -total
41.33% 115.594 2 Template:Reflist
32.47% 90.827 2 Template:London_Gazette
30.02% 83.982 2 Template:Cite_magazine
20.77% 58.105 33 Template:Coord
9.59% 26.818 33 Template:English_district_c
ontrol
 9.47% 26.499 1 Template:Use_dmy_dates

5.78% 16.180 1 Template:London

4.97% 13.913 2 Template:DMCA

4.23% 11.829 2 Template:Dated_maintenance_
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        <1i>>
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tle="Category:London boroughs">
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LUNGUN DUNGUNG
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[n]">
       Talk
      </a>
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ibutions" title="A list of edits made from this IP
address [y]">
       Contributions
      </a>
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="You are encouraged to create an account and log i
n; however, it is not mandatory">
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      </a>
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ecial:UserLogin&returnto=List+of+London+borough
s" title="You're encouraged to log in; however, i
t's not mandatory. [o]">
       Log in
      </a>
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t this page [e]">
        Fdit
        </a>
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="Past revisions of this page [h]">
        View history
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      </span>
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     </div>
    <div id="p-search" role="search">
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      clabal fan-"caanchInnut"s
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="Search Wikipedia for this text" type="submit" val
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     Navigation
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        Featured content
       </a>
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        Random article
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utm medium=sidebar&utm campaign=C13 en.wikipedi
a.org&uselang=en" title="Support us">
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ce on how to use and edit Wikipedia">
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       </a>
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out about Wikipedia">
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       </a>
      id="n-portal">
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title="About the project, what you can do, where t
o find things">
        Community portal
       </a>
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Changes" title="A list of recent changes in the wik
i [r]">
        Recent changes
       </a>
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Contact_us" title="How to contact Wikipedia">
        Contact page
       </a>
      </div>
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   <div aria-labelledby="p-tb-label" class="porta</pre>
l" id="p-tb" role="navigation">
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</h3>
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nksHere/List_of_London_boroughs" title="List of all
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ge [j]">
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ChangesLinked/List of London boroughs" rel="nofollo
w" title="Recent changes in pages linked from this
page [k]">
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to this revision of the page">
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Coursera Capstone/Capstone Project - The Battle of the Neighborhoods - London Neighborhood Clustering.ipynb at c72c5916e...
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vigation">
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ow-download-screen">
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Coursera Capstone/Capstone Project - The Battle of the Neighborhoods - London Neighborhood Clustering.ipynb at c72c5916e...
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Se
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additional terms may apply. By using this site, yo
u agree to the
    <a href="//foundation.wikimedia.org/wiki/Terms</pre>
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77%
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         Headquarters
         Area (sq mi)
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genham" title="London Borough of Barking and Dagenh
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25
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itle="Barnet London Borough Council">Barnet London
Borough Council</a>
<a href="/wiki/Conservative_Party_(UK)" title</a>
="Conservative Party (UK)">Conservative</a>
<a class="new" href="/w/index.php?title=North L
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South
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369,088
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</span><span class="geo-default"><span class="vcar
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17°W</span><span style="display:none"> / <span clas
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>
<a href="/wiki/Bexley London Borough Council" t
itle="Bexley London Borough Council">Bexley London
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<a href="/wiki/Conservative Party (UK)" title</a>
="Conservative Party (UK)">Conservative</a>
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23.38
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an></span></span><span class="geo-multi-punct"> /
</span><span class="geo-default"><span class="vcar
d"><span class="geo-dec" title="Maps, aerial photo</pre>
                   ...
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05°E</span><span style="display:none"> / <span clas
s="geo">51.4549; 0.1505</span></span><span style="d
isplay:none"> (<span class="fn org">Bexley</span>)
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23
<a href="/wiki/London Borough of Brent" title</a>
="London Borough of Brent">Brent</a>
>
<a href="/wiki/Brent London Borough Council" ti
tle="Brent London Borough Council">Brent London Bor
ough Council</a>
<a href="/wiki/Labour_Party_(UK)" title="Labour
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3'32"N</span> <span class="longitude">0°16'54"W</sp
an></span></span><span class="geo-multi-punct"> /
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<a href="/wiki/Croydon London Borough Council"
title="Croydon London Borough Council">Croydon Lond
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Party (UK)">Labour</a>
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1 House, Ealing&action=edit&redlink=1" titl
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257,379
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41</a></sup>
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Coursera Capstone/Capstone Project - The Battle of the Neighborhoods - London Neighborhood Clustering.ipynb at c72c5916e...
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Party (UK)">Labour</a>
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1 <a href="/wiki/No_overall_control" title="No over</pre>
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24
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## **APPLICATIONS**

Until now, we complied with the old age method of asking for other's opinion to make such an important decision for ourselves. A place can turnout to be good for someone else but may not suit your requirements. In such cases, what can be the optimal solution, where you don't know much about an area but still can decide if it's good for you or not? Examining various websites might have been a solution if there weren't such prolific amounts of them, which contributes to added weariness. In the suggested model the output will be a cluster of boroughs as demanded by the user.

- From a business prespective, a high investment can be easily done in such an area because it makes the users aware of what they may face in a particular neighbourhood of the borough.
- For the local authorities of that area, it is helpful in detecting what are the common crimes in the boroughs and choosing the appropriate measure to handle them.
- This model will save your time and money to find a suitable place according to your liking, someplace that fits close to your criteria of an ideal locality.
- Based on an algorithm that is centred on simplicity, this KNN model can also be used to look for other places such as, restaurants, grocery stores, shops, etc in an optimum way.

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- 3.https://en.wikipedia.org/wiki/List\_of\_districts\_in\_the\_Royal\_Borough\_of\_Kingston\_upon\_T hames
- 4.https://masterremovers.co.uk/2019/01/17/how-frequently-do-people-move-house-in-the-uk-c ompared-to-europe/
- 5. <a href="https://brycelands.co.uk/surprising-stats-moving-uk/">https://brycelands.co.uk/surprising-stats-moving-uk/</a>