

# Capstone Project - Presentation

The battle of Neighborhoods

Uy Du TRAN

# 1. Introduction

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**Background:** Safety is always a top concern when living in a new area, new city. Especially this is a one of the biggest city in the world like London.

**Problem:** Nobody want to live in a dangerous neighborhoods with high crime's ratio. Here we define where are the safest borough in London base on the total crime's ratio. You like coffee? Or French restaurant nearby your home ? This project also will lead you to explore the venues in all the neighborhoods in London for helping you to find out where you are interested in the most.

Target: This project will serve two group of audience:

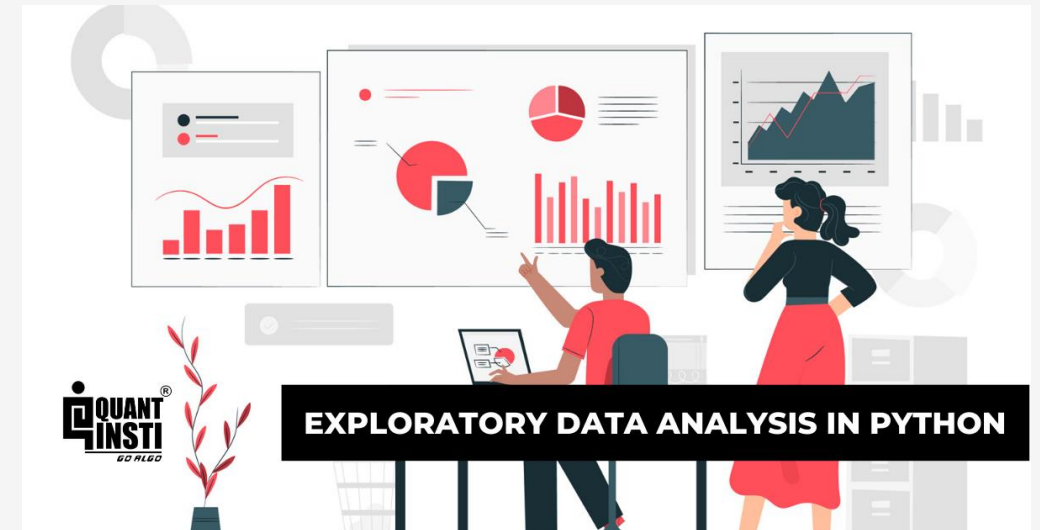
- Citizen
- Traveler



## 2. Analytic Approach

There are two approach in this project

- 1 *Exploratory data analysis(EDA)* to uncover hidden properties of data and provide useful insights to the reader
- 2 *Prescriptive analytics* to help people to explore all the neighborhoods to find out which is the borough the most suitable to live with *clustering* (KMeans)



### 3. Data requirement – Data acquisition

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**Data Acquisition:** The data used in this project is a combination of data from:

1. The London crime data that shows the crime per borough in London. (Provide by: Kaggle)
2. The data from Wikipedia page that contains the list of London boroughs
3. The data acquired from the Foursquare API



### 3. Data requirement – Data cleaning

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The data acquired from these source are cleansed separately

- 1 The data is scraped from Wikipedia page using the Beautiful Soup library in order to extract the data in the tabular format as shown on the website.
- 2 The London crime data source, only crimes in the year 2016 is selected. We pivot the crime's data into different categories and get the total crimes per boroughs .
- 3 We merge these data by the borough's name to from the new dataframe. The purpose of the new data is for visualise the crime rates in each borough and identify with safest borough during the year of 2016

## 4. Discussion

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*The aim of this project is to help people to understand about the safest borough to live in London*

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*The project will lead people to discover their favorite boroughs to live base on selecting nearby venues.*



Let's discover the project