# THE BATTLE OF NEIGHBORHOODS

# Introduction

- BACKGROUND : Safety is a 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.

- PROBLEM : This project aims to selects the safest Place in Boston based on the total crimes, explore the neighbourhoods of that Streets.

- INTEREST : Expats who are considering to relocate to Boston will be interested to identify the safest Streets in Boston and explore its neighbourhoods and common venues around each neighbourhood.

# Data Analyzing

- From the Boston crime data, the crimes during the most recent year (2018) are only selected. The major categories of crime are pivoted to get the total crimes per the boroughs for each major category.

- After visualizing the crime in each Street we can find the Street with lowest crime rate. The third data set is created, with the names of neighbourhoods and the name of the Street with the latitude and longitude.

- The new data set is used to generate the 10 most common venues for each neighbourhood using the Foursquare API, finally using k means clustering algorithm to clustering similar neighbourhoods together.

# Discussion

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

- For example, if a person is looking for a neighbourhood with good connectivity and public transportation.

# Conclusion

- This project helps a person get a better understanding of the neighbourhoods with respect to the most common venues in that neighbourhood.

- 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 neighbourhood.

- We have just taken safety as a primary concern to shortlist the safest Streets of Boston.

- The future of this project includes taking other factors such as cost of living in the areas into consideration to shortlist the Street, such as filtering areas based on a predefined budget.