

# **1. Introduction**

## **1.1 Background:**

The average American moves about eleven times in their lifetime. 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 what 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 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.

## **1.2 Problem:**

The crime statistics dataset of Chicago found on Kaggle has crimes in each Boroughs of Chicago from 2014 to 2015. The year 2015 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 Chicago based on the total crimes, explore the neighbourhoods of that borough to find the 10 most common venues in each neighbourhood and finally cluster the neighbourhood's using k-mean clustering.

## **1.3 Interest:**

Expats who are considering to relocate to Chicago will be interested to identify the safest borough in Chicago and explore its neighbourhood's and common venues around each neighbourhood.