**Large City Exodus: Finding a New Home**

Problem Description

With COVID-19 strike the world in 2020, people's life changed dramatically around the world. In United States, the country with the most cases in the world, each family has their struggle to adapt to their new life. Staying at home and social distancing become a major part of daily life. Adult works from home and children take online class at home. People spend more and more time at home which make them realize their current home cannot fulfill all their need. People are looking for new home with more space and low costs, and some people even move away from major metropolis, such as California bay area and New York City, to places with lower living cost.

Due to Texas's no state income tax, relative low living cost, vibrant technology industry and solid infrastructure, state of Texas has become one of the most popular choice to move to. Even large corporations such as Tesla, Hewlett Packard and Oracle are moving their head-quarter to Texas. In this capstone project, I'm going to use machine learning technique to find a new home in Dallas, Texas for Asian Americans considering several factors that is essential to their daily life

Data and Methodology

Gathering geographic location data of all the boroughs in Dallas is the first step in the project. Based on location data, detailed information such as restaurants and super markets can be retrieved using FourSquare API. For Asian Americans, Asian super markets and Asian restaurants are must-haves for daily life. Descriptive statistical analysis will be carried out first to provide a general overview of the boroughs. The clustering is used to categorize boroughs. Finally folium will be used to visualize the cluster results.