

The Business idea

Introduction to the Business idea

I would like to serve as a real estate consultant to potential clients who are searching for neighborhoods that are suitable to their interests, specifically those clients want to establish commercial enterprises that aim to tap into safe and wealthy neighborhoods in Illinois. Obviously like most potential searchers of real estate property in Illinois they are likely to be wary of the security of their persons and property including their businesses once they get the green light to start operating. My service will be to deliver potential districts for real estate business establishment in Illinois based on level of primary crime using Gun violence as an indicator.

Description of the dataset to use

The capstone will be based on Chicago Metropolitan police dataset that tracks crimes based on several variables that include ID, which is the unique identifier of the recorded crime; Case number, which is issued by the Chicago police department, that is unique to the incident; the Date, which is the best estimate of the time when the crime occurred; Block, which is the partially redacted address where the incident occurred; ICUCR, the Illinois, Chicago Uniform Crime reporting Code; primary Type, which is the primary description of the IUCR code that relates to the incident; description, which is the secondary description of the IUCR code: subcategory of the primary description; location of the incident; whether or not arrest(s) were made following the incident; Domestic, which refers to whether or not the incident involved domestic violence and the nature of the violence as defined by Illinois Domestic Violence Act; Beat, which is the location of the incident based on the beat signals registered in the Police car; District, which is the police district where the incident occurred; Ward, which is the City council of district where the incident occurred; Community area where the incident occurred; FBI code, which is based on the crime classification based on the FBI's national incident based reporting system (NIBRS); X coordinate of the place where the incident occurred based on Illinois State plane; Year when the incident occurred; update on, data and time the crime category is updated; Y coordinate which is the Y coordinate of the place where the incident occurred on Illinois State plane; Latitude, which is the latitude of the place where the incident occurred; Longitude, which is the longitude of the place where the incident occurred; and location which consists of the latitude and longitude of the place where the incident occurred. The dataset is extracted from Chicago Police Department's CLEAR (Citizen Law Enforcement Analysis and Reporting) system, and updated on a daily basis. To that end, the dataset contains of criminal incidents in Chicago from 2001 until January 1, 2019. Data can be sourced at the link: <https://portal.chicagopolice.org/portal/page/portal/ClearPath>. The segmentation analysis will focus on year 2018.