Capstone Intro and Data

September 17, 2019

A. INTRODUCTION

Since the beginning of the 20th century, The Chicago Police Department's Bureau of Records have been tracking crimes in Chicago. In 2016 it was projected that the U.S. crimes would rise by 13%, but half would be due to the violence in the Chicago.[1] There are many factors that contributes to crime rate, but in this this project education and overall income will be the main focus. Education gives people the opportunity to expand their scope in how to live an effective life. With the lack thereof, a person may be tempted to go the wrong path. Recent research suggested that lack of education can contribute to the rise of crime rate. For example, young adults dropping out of school due to personal or environmental factors, In this project, we will determine the most optimal location to place a new nonprofit education center, Brighter Days Academy, in Chicago where they will be providing opportunities for young adults and adults to aid them in getting their GED, learn how to manage their finances, expose them opportunities with a college degree or trade school and more.

B. DATA

In order to select the optimal location for the educational center, the following data was gathered and analyzed:

The location and name of Chicago public schools were obtained using Foursquare API this was used to confirm the location of the Chicago community areas. Chicago's crime data was gathered using from the Chicago Data Portal that recorded incidents that occurred in 2019. This data .json file will be cleaned to make a choropleth map to show the heavy occurrence of crimes in each region. Chicago's socioeconomic data was gathered from the Chicago Data Portal that contains a selection of six socioeconomic indicators of public health significance

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