The Battle of Neighborhoods

Final Presentation

FOR

Applied Data Science Capstone

Content

Introduction

Data
- Chicago Public Schools
- Chicago Crime Data

Methodology

Results
- Top 15 violent areas
- Top 10 community
- Popular Venues

Introduction

- One of the main problems when ones move to a new city is where to find a good neighborhood.
- This work will be focused on analyzing and visualizing some community of Chicago.
- A good community will be ones with low rate of crime, healthy schools and high number of public schools.
- Aims:
  - provide valuable insights about the life of a good community in Chicago (SOUTH LAWNDALE)
  - support people to make decision when they want to move to Chicago
- The main business accompanied in this work is what are the best areas in Chicago in term of safety and schools as well as what are different type of venues in those area that one can expect for.

Data

Chicago Public Schools

- This dataset shows all school level performance data used to create CPS School Report Cards for the 2011-2012 school year.
- This dataset is provided by the city of Chicago's Data Portal.
- For this work I only use a snapshot of this dataset downloaded from here
- A detailed description of this dataset and the original dataset can be obtained from the Chicago Data Portal

Data

Chicago Crime Data

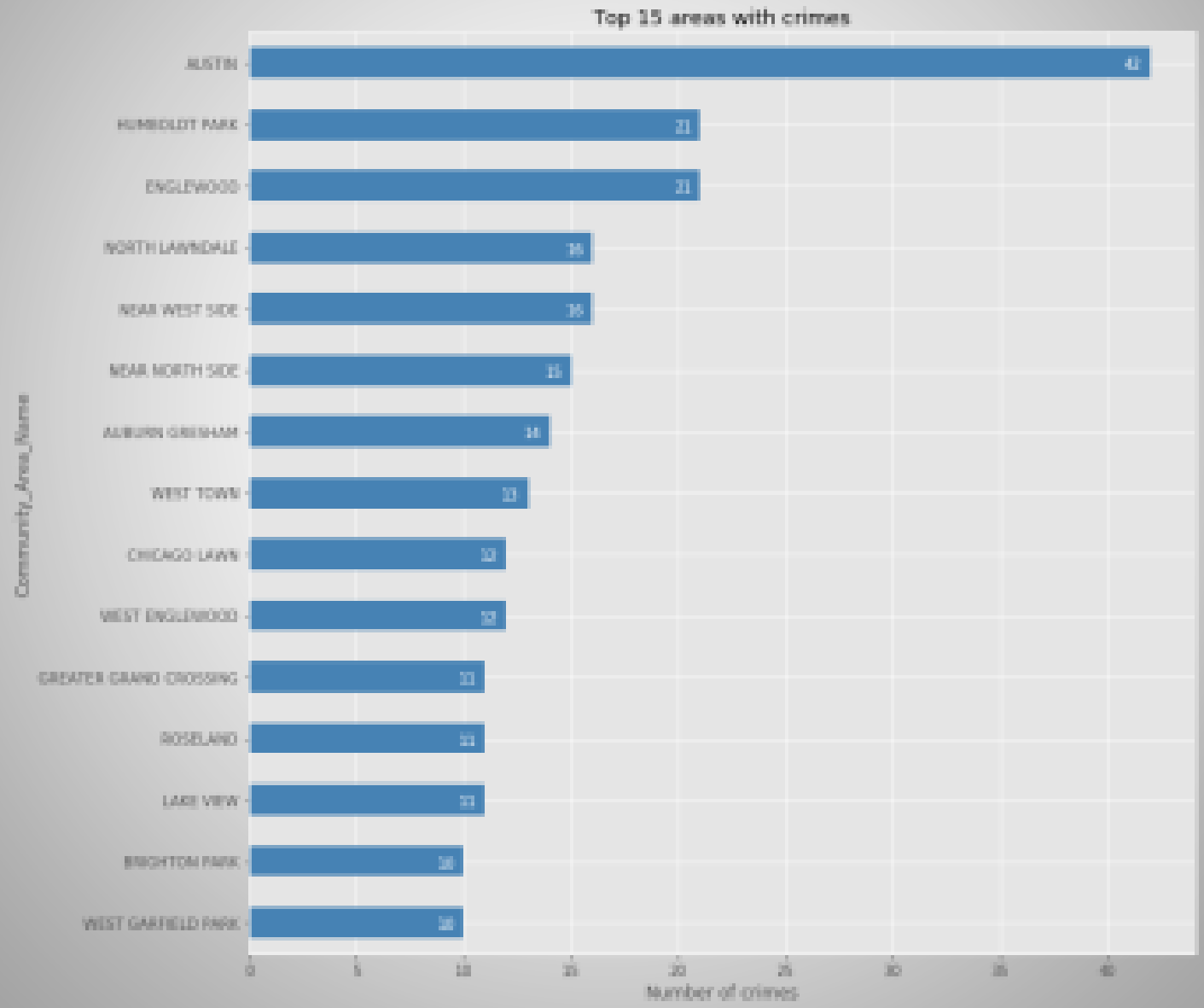
- This dataset reflects reported incidents of crime (with the exception of murders where data exists for each victim) that occurred in the City of Chicago from 2001 to present, minus the most recent seven days.
- For this assignment I will use a smaller sample of this dataset which can be downloaded from here detailed description of this dataset and the original dataset can be obtained from the Chicago Data Portal

Methodology

- Stage 1 - Business Understanding: the main goal is to search for where is the best area in Chicago in term of safety and schools.
- Stage 2 - Analytic Approach
  - First identify which are the most violent areas in Chicago based on the Crime Data
  - Next the areas are visualized on the map so users can be aware of those.
  - Last, community with high number of schools which is ideally to live is presented to the users.
- Stage 3 - Data Requirements
  - The data required for this work is described in the Data section.
  - Those datasets were download and then stored in the IBM Db2 database for latter usage.
  - venues information provided by FourSquare will be used also to give users an overview of their future ideal community.

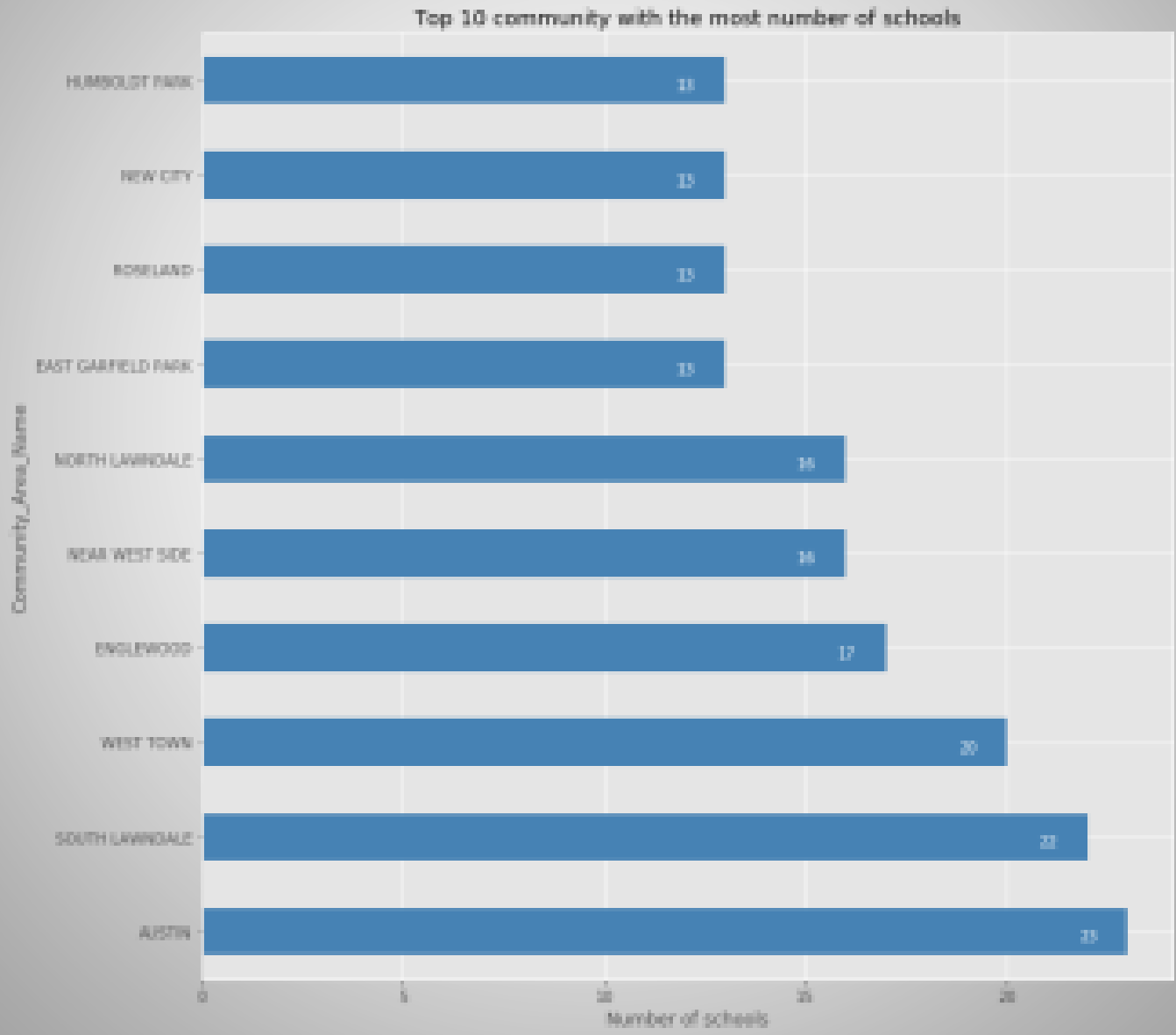
Results

Top 15 violent areas in Chicago



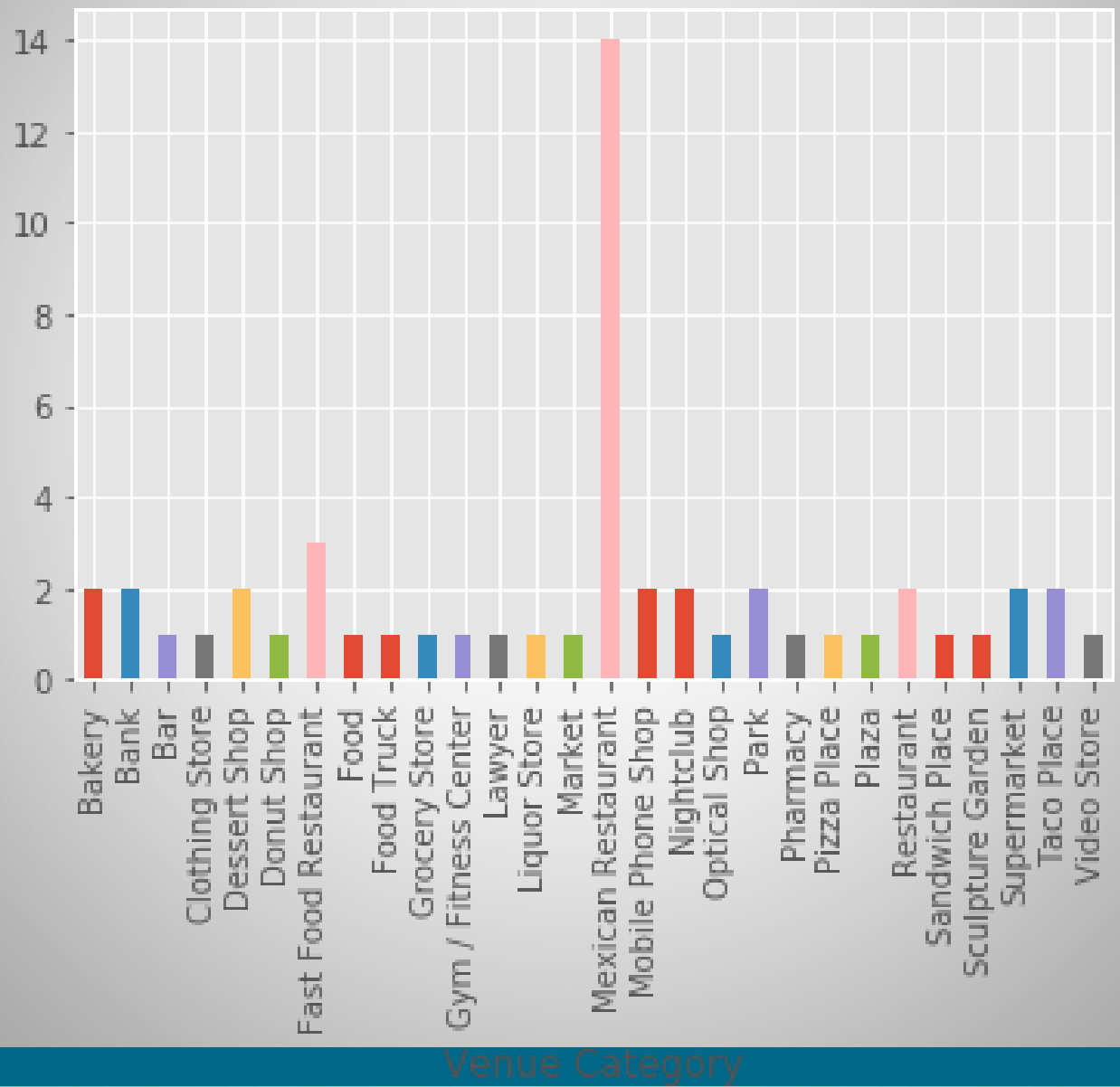
Results

Top 10 community with good schools



Results

Popular Venues in SOUTH LAWNDALE



QUESTIONS?