

Capstone Project - The Battle of Neighborhoods (Week 1) Report

Introduction & Business Problem

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. Hopefully, the analysis can give valuable insights about the life of a good community in Chicago (SOUTH LAWNSDALE), helping people to make decision when they want to move to Chicago. Popular venues in SOUTH LAWNSDALE are also recommend to the users. 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

Two datasets are used:

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:

<https://ibm.box.com/shared/static/0g7kbanvn5l2gt2qu38ukooatnjquys.csv>

A detailed description of this dataset and the original dataset can be obtained from the Chicago Data Portal at:

<https://data.cityofchicago.org/Education/Chicago-Public-Schools-Progress-Report-Cards-2011-/9xs2-f89t>

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:

<https://ibm.box.com/shared/static/svflyugsr9zbqy5bmowgswqemfpm1x7f.csv>

A detailed description of this dataset and the original dataset can be obtained from the Chicago Data Portal at:

<https://data.cityofchicago.org/Public-Safety/Crimes-2001-to-present/ijzp-q8t2>