**Table of Contents**

1. **Introduction**
2. **Data**
3. **Methodology**
4. **Results**
5. **Discussion**
6. **Conclusion**

**Map

Description automatically generated**

* 1. **Data**

2.1 — Data Overview:

I’ve web-scraped the table for Chicago Neighborhoods and Community Areas and appended the latitude and longitude for each Community Area using the geopy library in Python. Venue data pertaining Restaurants, Music venues and Pool Halls was obtained via Foursquare. The Venue data will help find which neighborhood is best suitable for my interests and help me decide on a suitable location for my move.

2.2 — Data acquisition:

Source 1: Table of Chicago Neighborhoods and Community Areas via Wikipedia

Graphical user interface, application

Description automatically generated

Figure Table of Chicago Neighborhoods and Community areas

<https://en.wikipedia.org/wiki/List_of_neighborhoods_in_Chicago>

Data read into a Dataframe:

Graphical user interface, application

Description automatically generated

Figure Dataframe of Data

2.3 — Adding Latitude and Longitude:

Using geolocator and geocode I looped through each row of the dataframe and found the corresponding latitude and longitude. This took considerable time, so I saved the result as a csv file and then read that file when needed.

Graphical user interface, text, application

Description automatically generated

Figure Dataframe with Latitude and longitude added

2.4 — Data Cleansing:

Four of the Community Areas had incorrect names and geolocator locator could not find a latitude and longitude for these. The names had to be corrected in the original data frame so that the latitude and longitude could be found.

2.5 — Adding Venue information using Foursquare:

Graphical user interface, application

Description automatically generated

Figure 4 Chicago Data with Venue information added