Battle of the Neighborhoods

Introduction

Chicago is the third largest city in the United States and is home to 2.7 million residents. Nearly 100 neighborhoods make up the city. The city has more than 7,300 restaurants, has over 580 parks with 8300 acres of green spaces, not to mention a beautiful coastline along Lake Michigan, Art attractions, and many more. Chicago is also home to a few fortune 500 companies such as Boeing and United, but the backbone of the economy is small business. When a business considers expansion, the success is dependent on many factors, one of them being location. A business might want to expand into an area similar to where they are currently located.

This analysis will look at the neighborhoods in Chicago and cluster them to help businesses select neighborhoods to expand to. A decision like can be difficult, but hopefully this analysis can help in their decision.

Data

- The venue data from the Chicago neighborhoods. This would include the type of venues a neighborhood has.
  - **Data Observations**:
    - 292 unique venue types
    - 2690 venues near the center of the neighborhood
    - On average nearly 28 venues near the center of the neighborhood
  - ***Source***:
    Foursquare API

- Chicago neighborhood locations were taken from the following location. This data will be preprocessed and uploaded to IBM Watson for the analysis.
  - **Data Observations**:
    - 98 neighborhoods in Chicago
  - ***Source***:
    https://data.cityofchicago.org/Facilities-Geographic-Boundaries/Boundaries-Neighborhoods/bbvz-uum9

- This venue types of the neighborhood will then be used to cluster the neighborhoods.

Methodology

Results

Discussion

Conclusion