

Capstone Project - The Battle of Neighborhoods

Clustering the Neighborhoods of Amsterdam, The Netherlands

Data

The geo-coordinates (latitude and longitude) of the neighborhoods of Amsterdam are freely available on the web:

https://maps.amsterdam.nl/open_geodata/?LANG=en

It can be downloaded in different formats, e.g. as a csv file or json file.

Amsterdam has 8 districts (boroughs) and in total 481 neighborhoods. These neighborhoods are very close to each other, so I decided to use the aggregated neighborhoods in our analysis. There are 99 aggregated neighborhoods called quarters.

To explore the neighborhoods of Amsterdam and obtain the most common venue categories in each neighborhood I have used the Foursquare location data. I have used the Foursquare API called *explore* to obtain the 100 most common venues in each neighborhood in a radius of 1000 m from the center of the neighborhood. This center is given by the latitude and longitude values from the csv file that I have downloaded (see above).