

Analyzing neighborhoods in Zurich, Switzerland

M. Oyewale

June 6, 2021

Introduction

In my capstone project, I will want to figure out which neighborhoods in Zurich, Switzerland, me and my wife could look to live in. We currently live in the District 2, more specifically in Wollishofen, and enjoy the parks we have very close to us. We do however lack restaurants and cafés here. Can we find a neighborhood in Zurich that has parks as well as cafés to buy housing in?

My project could help other citizens of Zürich to also find places that are similar to their own neighborhoods. As the center of Zurich is very expensive, finding places outside of the very center of Zurich could pay off a lot. Therefore, this project can also help in saving rent or costs when buying homes.

Data acquisition and cleaning

For this analysis I used data from Wikipedia:

https://de.wikipedia.org/wiki/Stadtteile_der_Stadt_Z%C3%BCrich.

This data was webscraped using the BeautifulSoup package.

Additionally, after an extensive search, I found data on the Swiss coordinates

on: <https://simplemaps.com/data/ch-cities>.

Using these two sources, I was able to get the coordinates and match them with the neighborhoods. I used the kMeans method to find clusters of neighborhoods that are similar to the one we currently live in as this gives us an insight into which neighborhoods we might like to move to.

Examples of the data I was working with:

The data I used from Wikipedia looked followingly: Kreis 1 was the borough; Rathaus, Hochschulen, Lindenhof, City were neighborhoods in this borough. The longitudes, latitudes were, eg. Wollishofen - 47.3478° N, 8.5335° E. I then leveraged the Foursquare data to answer my above question.

Clustering

The following pictures show the segmenting and clustering that was done during the analysis.



