Open a restaurant in Berlin

A. Introduction

A.1. Description & discussion of the background

Berlin is the capital of Germany. In terms of inhabitants, it is the second most populous city of the EuropeanUnion after London. Berlin is also one of the top 3 travel destinations in Europe. This city is divided into 12 boroughs. The purpose of my work is to look at the suitable borough for a new restaurant. My first idea is to visualize the borough with the most important residents and then I will also use a cluster method to located the boroughs with can be attrativ for an investor.

A.2. Data description

To consider the problem I use following sources:

- I found in wikipedia a table with boroughs of Berlin and the number of residents and more information. I use this table to set up 2 data files. The first data file contains a table with the boroughs of Berlin and their number of residents. I will use this file to create a vertikal bar chart to visualize the boroughs with the number of their residents. The second data file contains the boroughs of Berlin with their latitude and longitude. The second file will be used for the clustering.
- I used Google Map to get the center coordinates of each Borough.
- I will use Foursquare API to get the most common venues of given borough of Berlin.

Data Source: https://de.wikipedia.org/wiki/Verwaltungsgliederung_Berlins