

The Battle of Neighborhoods: Identifying the most suitable spots to live in Berlin during a pandemic

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Introduction and problem statement

Pandemics, such as COVID-19, tend to spread more easily in cities. Transmission of infections is facilitated by population density and intensive use of public spaces, including public transport.

In this project, which I am undertaking as part of my Applied Data Science Capstone, I will try to answer the following question:

Which neighborhoods of the city of Berlin are most convenient for living during the pandemic?

Data

To answer the above question, I will require location data which can be used to segment neighborhoods into different categories (i.e. those more suitable during pandemic and vice versa). The following are the dataset I have identified for the purpose of this project:

1. The Foursquare Places API data on venues and relevant information about the venues, such the categories
2. Coordinates of train stations belonging to the **Berliner Verkehrsbetriebe** ("Berlin Transport Company")