Data Visualization Report

Thomas Vroom
i6291496, t.vroom@student.maastrichtuniversity.nl

I. Chosen dataset

I chose the dataset "Nabijheid voorzieningen; afstand locatie, regionale cijfers" from the CBS as dataset for this project. This dataset contains information on average distances to common facilities such as hospitals, schools, train stations etc. To not make things overly complicated I only used the data from 2023 (the most recent year for which the data is complete), considered the data at municipality-scale (i.e. each municipality is its own spatial area), and used the following subset of columns:

Avg. Distance to Closest {GP, Pharmacy, Hospital, Supermarket, Primary School, High School, Highway, Train Station, Fire Station}

I used the "Wijk- en buurtkaart 2023" as the shape file for this data, also by the CBS. This shape file uses the same municipality codes as the dataset, making the transformation from the original dataset to geospatial data very straightforward. The dataset was preprocessed in the following way:

1) Select the relevant columns from the original dataset.
2) Remove rows that contain NaN (municipalities that do not exist anymore).
3) Merge the shape file and the dataset on the region codes.
4) Remove water areas from the shape file
5) Convert the coordinate system to EPSG:4326.
6) Export the merged shape file as GeoJSON.

The final dataset has 13 columns (features) and 342 rows (spatial areas; one per municipality).