

## Data

Data on St Louis neighborhoods is available on Wikipedia (1). Using a notebook on IBM Watson, I converted the St Louis neighborhood names and demographics from Wikipedia to a pandas data frame. Note that data do not include the neighborhoods in the St Louis metropolitan area as that is beyond the scope of this project. The coordinates of the neighborhoods were then obtained from Nominatim and added to the data frame. The neighborhoods were then visualized on a map of St Louis using Folium. I used Foursquare to search for the urgent care centers in St Louis. Results, which include addresses and coordinates, were then converted to a second pandas data frame. Urgent care centers were then visualized on a map of St Louis using Folium. The neighborhoods of St Louis were then clustered by K means clustering. Visualizing the clusters with urgent care centers on the same map shows the distribution of urgent care centers in the different neighborhood clusters. This method highlights neighborhood clusters with reduced access to these centers.

## References:

[https://en.wikipedia.org/wiki/List\\_of\\_neighborhoods\\_of\\_St.\\_Louis](https://en.wikipedia.org/wiki/List_of_neighborhoods_of_St._Louis)