

**Dan Weber**  
**Capstone Data Science**  
**7/6/2020**

## **Data Section:**

Using data about Buffalo NY which has been wrangled and cleaned, we will explore the neighborhoods of this city and use Foursquare data and location data to pinpoint the neighborhoods as well as the venues nearby.

By creating a pandas dataframe from the data wrangled from "[https://en.wikipedia.org/wiki/Category:Neighborhoods\\_in\\_Buffalo,\\_New\\_York](https://en.wikipedia.org/wiki/Category:Neighborhoods_in_Buffalo,_New_York)", the list of neighborhoods in Buffalo NY can be organized and put into columns showing name, latitude, longitude, and therefore can be used with Foursquare venue data in order to compare and contrast these neighborhoods statistics for our purposes.

Using these sources of data, we will create visual aids such as maps with Folium, as well as cluster the neighborhood data with k-means, giving us the best representation of the available data. By doing so, we can address our business problem fully and effectively.