Week 8 (October 21-October 28)

Tools used:

Python

Goal:

Objective:

Graph our relationship between category likelihood and density but with different x axis as features

1. Instead of density, we want to just use max vocalization length (duration). Be careful that we want the max duration length of a crying annotation within an episode, not the max summed duration.
2. Same as of above but with mean

We would also like to include some sort of “confidence” level by visually displaying how many instances occur for a given point. In this case, we can mark that by graphing “markers” and the size of these “markers” can vary in size depending on the number. We would also like to display the number

Results:

Procedure:

1. In Episode.py, prepare the P1\_e20160630\_174419\_013088\_1\_Min\_Density.csv by including other columns “max duration” and “mean duration”
2. Density(episode,annotation,sel) -> added helper functions findMax(), findMean(), which will traverse through the dataframe and find the corresponding features
3. Regenerated each 1-minute density csv files, copied the categories “yes” / “no” onto the csv files.
4. Re-ran pregenerate() to create compile.csv.
5. Added raw\_input for user to decide between density, duration mean, and duration max to set the x axis.
6. Added for loop to create a scatter plot after creating line plot
7. Changed the way x was graphed. IF there is no data associated with an x value, then it will just interpolate it. (Drop na from dataframe)