Week 2 (November 29-December 6)

Tools used:

Python

Goal:

Objective:

1. Identify the start and stop of a “look away” instance.
2. Find the duration of this “look away” instance
3. Find the average “x” value for this “look away” instance
4. Average X vs median X… prevent
   1. To eliminate bias due to distractions in one direction over the other
5. Find peak to each distraction found
6. (IF time permits) interpolate missing data rather than removing the (-1)

Things to think about:

Use peak algorithm and then find the x values (left and right of the peak) until it reaches threshold

How accurate is this threshold?

What about missing data? (the -1). Will it affect interpretation of data?

Results:

1. When trying to find the start and end points above a threshold for detecting baby distraction, ran into some troubles:
   1. Not all time values (x axis) accommodated for a x distance value (y axis) that exceeds the threshold limit.
      1. Tried to solve for this by calculating slope between two points and determining the time value for the x distance value (y axis) at the threshold
   2. There seemed to be multiple x distance values (y axis) for one time value (x axis)
      1. Solution was to simply remove all the occurrences (and the corresponding x distance value (y axis)