

Daily Log

Thursday October 17

Looked into importation solutions

Saturday October 19

Continued to look into importation solutions and started to look into other motion tracking systems.

Monday October 21

Coordinated with partner on skeletal model, worked on what kind of data and how to work it

Tuesday October 22

Did more research into how to implement and how they implemented it

Thursday October 24

Started on writing it on my own machine rather than using colab.

Timeline

Date	Goal	Met
10/15	Extract position data from the skeletal model	No, Skeletal model hard to implement
10/21	Work with partner to put data into neural network, tweak position data if necessary	Did talk with partner about position data but don't have data
10/28	Place skeletal model	No, tf-pose-estimator isn't the most compatible with colab
11/4	Place skeletal model using python environment on computer	
11/11	Work with partner to put data into neural network, tweak position data if necessary	

Reflection

These past few weeks there have been setbacks on the skeletal frame. After numerous tests, I think that the easiest course of action will be to run the skeletal model on a local machine rather than colab first. I think it's more important to have a working model and once that is established, if I can translate it to google colab, then I will. The issue with colab was that it depends on being able to use files within a folder. I don't think colab has this feature or at the very least, it's complicated to implement.

At first I decided to find a different program that was compatible with colab. I looked into datasets such as COCO, MPII, and VGG. However, I ran into similar issues. We may use some of these datasets as test cases in the future. We decided on the original because of aforementioned reasons: relatively high fps processing, using tkinter, and accuracy.

I decided this on Friday so I began installing all the packages needed but haven't finished. I will first try it on my local machine but if it doesn't have the processing power, I will use one of the Sys Lab machines. I think that as long as we can extract position data from a video, it won't matter if it's on colab or not.