MP #2: Peer Feedback #1 (Pre-Feedback Work to Date) => Post-Feedback with Libo Zhang (Iz200) annotation along Side

The structure of my work to date format will follow the recommended project milestones.

Note: Only the code written for testing my algorithm will be displayed to help peer review/feedback.

Week 1: Overall peer feedback I received from other group members:

(1) Load/Read the data Currently making good progress based on the Recommended

```
filenamel = "feaSubEImg_1.csv" Project MaleStoneS. [3]: img1
                                                                             = df_img1.to_numpy()
filename2 = "feaSubEImg_2.csv"
                                                                             = df_img2.to_numpy()
filename3 = "feaSubEOvert_1.csv"
                                                                  overt1
                                                                            = df_overtl.to_numpy()
filename4 = "feaSubEOvert_2.csv"
                                                                  overt2
                                                                            = df_overt2.to_numpy()
filename5 = "sensors102.csv"
                                                                  sensors102 = df_sensors102.to_numpy()
            = pd. read_csv(filename1, header = None)
df_img1
                                                                 print (imgl. shape)
             = pd. read_csv(filename2, header = None)
                                                                 print (img2. shape)
             = pd. read_csv(filename3, header = None)
df_overt1
df_overt2 = pd. read_csv(filename4, header = None)
                                                                 print (overt1. shape)
                                                                 print (overt2. shape)
df_sensors102 = pd.read_csv(filename5, header = None)
                                                                 print (sensors102. shape)
```

Notes to myself—what I will do next: I will (204, 120) follow the Project Milestones c Week 2 to start with) and try to (204, 120) implement a two-class linear cno kernels) SVM classifier on the Imagritary data and Overt data to

Block [2] proves that I can successfully Load the data, and Block [3] proves that I can successfully Read the data.

```
# Each trial (observation) is represented by a 204 * 1 vector print(img1[:, 0]. shape)

# Print out the first 5 feature values of the first trial 204 * 1 vector print(img1[0:5, 0])

# The i-th feature vector is a 1 * 120 vector print(img1[0, :]. shape)

# Print out the first 5 trials of the first feature vector print(img1[0, 0:5])

(204,)

[ 102.84934331    48.46989141   -83.16721505    83.92515322 -174.96255643]
(120,)

[ 102.84934331    -406.15754407    294.53639568    156.37028017 -157.56413992]
```

Block [4] further proves that I understand what the data represents.

How the feedback I received influences my next steps: During group discussion, I think I am more familiar cor realize what I should do) with the Two-Level Cross-Validation, I expect my take-away in Peer-Feedback / can help me Save much more time in debugging in the future.

(2) Plot (image) channel weights on the brain surface

(You can create your own vectors of 204 positive numbers to test)



discussion, he mistakenly

Plotted feature values,

instead of weights, on the
brain surface. I think I

should also be careful with
these details in the future.

Blocks [5] and [6] demonstrate that I have successfully tested the auxiliary plotting function for plotting channel weights on the brain surface.

How the exchange of information and ideas with my peers influences my next steps: I think I learned a lot during this Peer Feedback Session, especially in how to extract the 204x/ weights vector after fitting a SVM model with training data, and how to correctly understand the Two-Level Cross-Validation. I believe these knowledge can help a lot when I am coding to solve the corresponding questions.