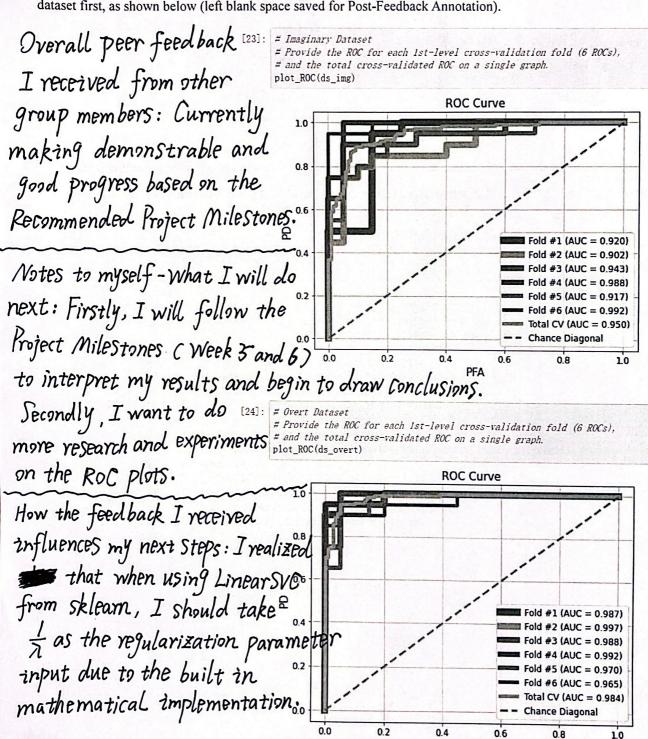
MP #2: Peer Feedback #2 (Pre-Feedback Work to Date) => Post - Feedback with annotation alongside. Libo Zhang (lz200)

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.

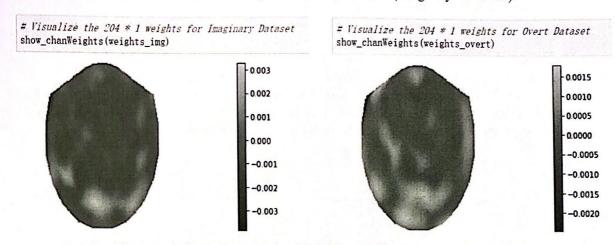
In Peer Feedback #1, I only completed Week 1 milestones. Therefore, in this session, to fully demonstrate that I have completed milestones for Week 2, 3, and 4, I decide to export the ROC plots for imaginary dataset and overt dataset first, as shown below (left blank space saved for Post-Feedback Annotation).



1.0

PFA

Then, let us visualize the 204 × 1 vector weights on the brain surface (Imaginary and Overt).



To demonstrate that I can successfully implement the 2^{nd} level cross-validation to optimize the regularization parameter λ for each 1^{st} level fold, intermediate results during Two-Level Cross Validation are shown below.

How the feedback I [13]: # Imaginary Dataset Provided to my peers influences Extract the decision statistics as "ds_img"

Extract the accuracy for each 1st level fold as "acc_img" # The last accuracy value is the average accuracy my next Steps: I helped one (total cross-validated) # Extract the 204 * 1 weights vector as "weights_img" member identify one Small ds_img, acc_img, weights_img = BCI_Decode(img1, img2) print(acc_img) error during discussion, he Current first level fold index is 1 mis takenly thought we should Current optimal regularization parameter is 1.00 Current first level fold index is 2 Current optimal regularization parameter is 0.10 also find the best A for the Current optimal regularization parameter of the Current first level fold index is 3 Current optimal regularization resultant continual regularization parameter co Current optimal regularization parameter is 0.01 first level cross-validation. Current optimal regularization parameters the contract of the co Current optimal regularization parameter is 1.00 Instead, what we should do for Current first level fold index is 5 Current optimal regularization parameter is 0.01 the 1st level is to optimize Current first level fold index is 6 Current optimal regularization parameter is 0.10 the classification accuracy. [0.825 0.85 0.9 0.95 0.825 0.975 0.8875]

How the exchange of information and ideas with my poers influences my next Steps: I also learned a lot about how to correctly implement the plan regularization cRidge) given min $\Sigma + \lambda \cdot W^T W$, and how to implement the 2nd-level cross-validation in a convenient way, but I still prefer to extract indices from X and y, the most basic approach.