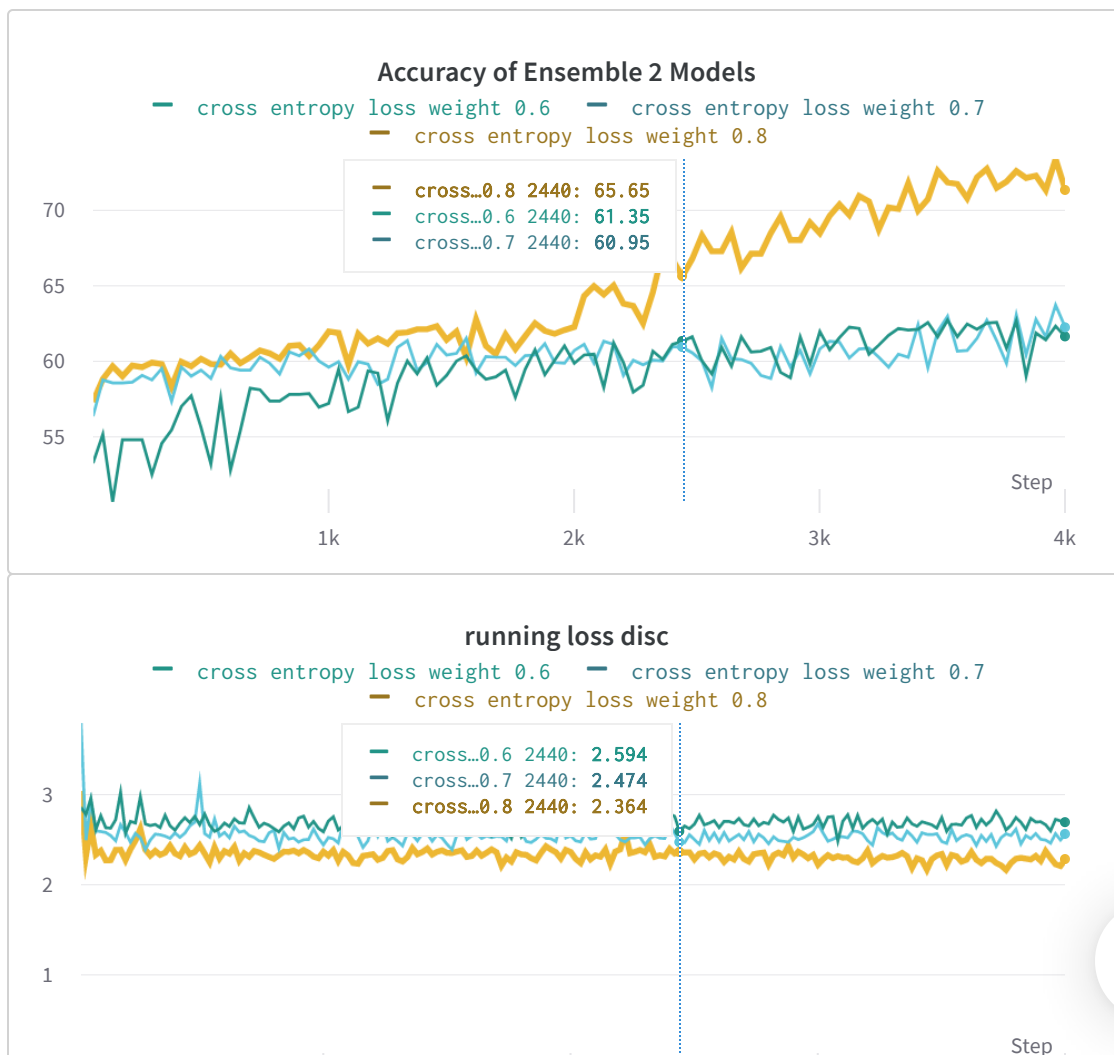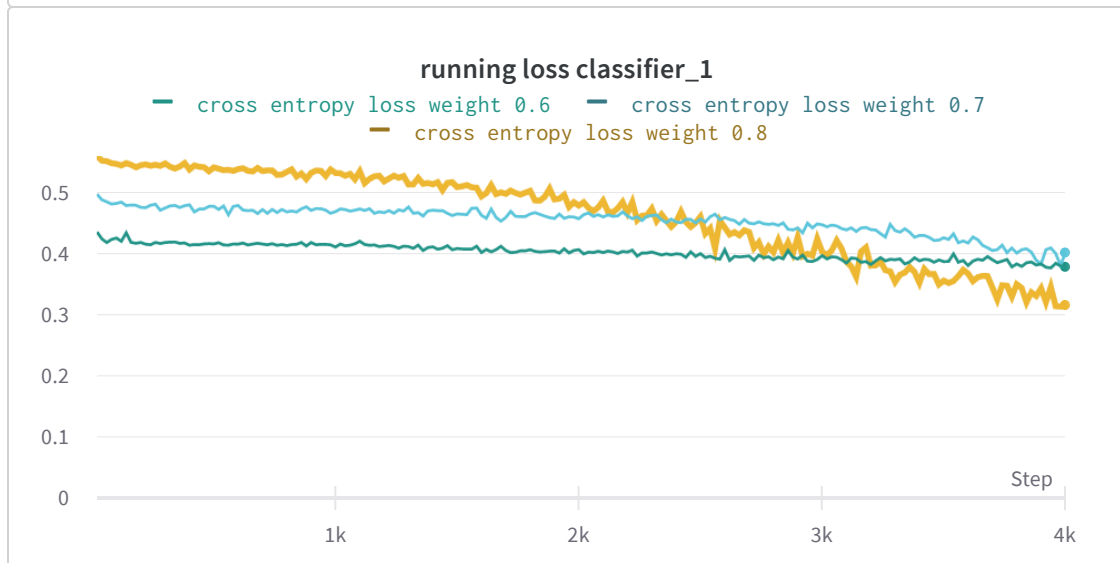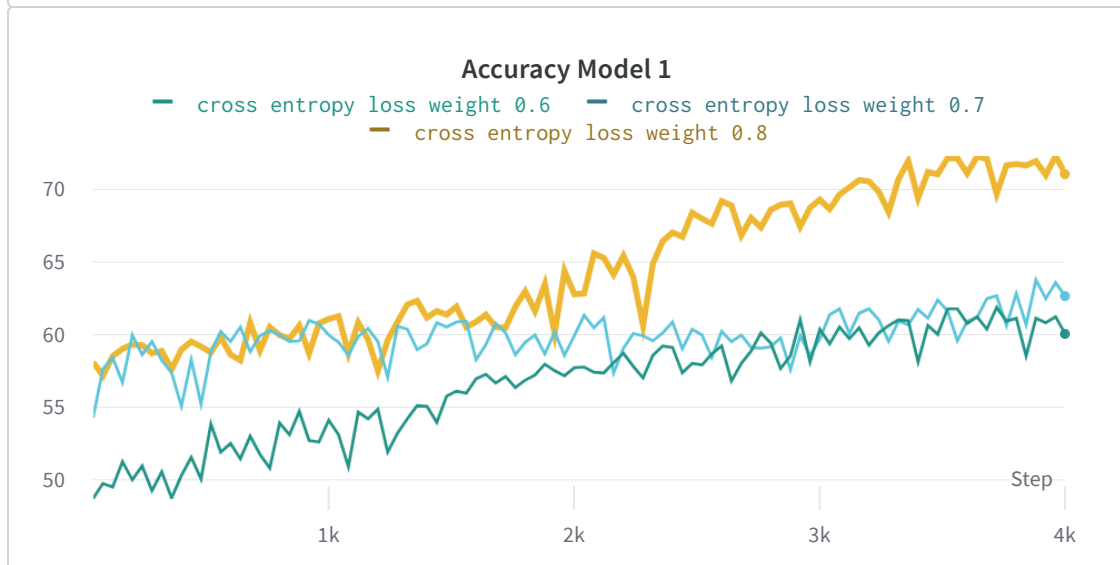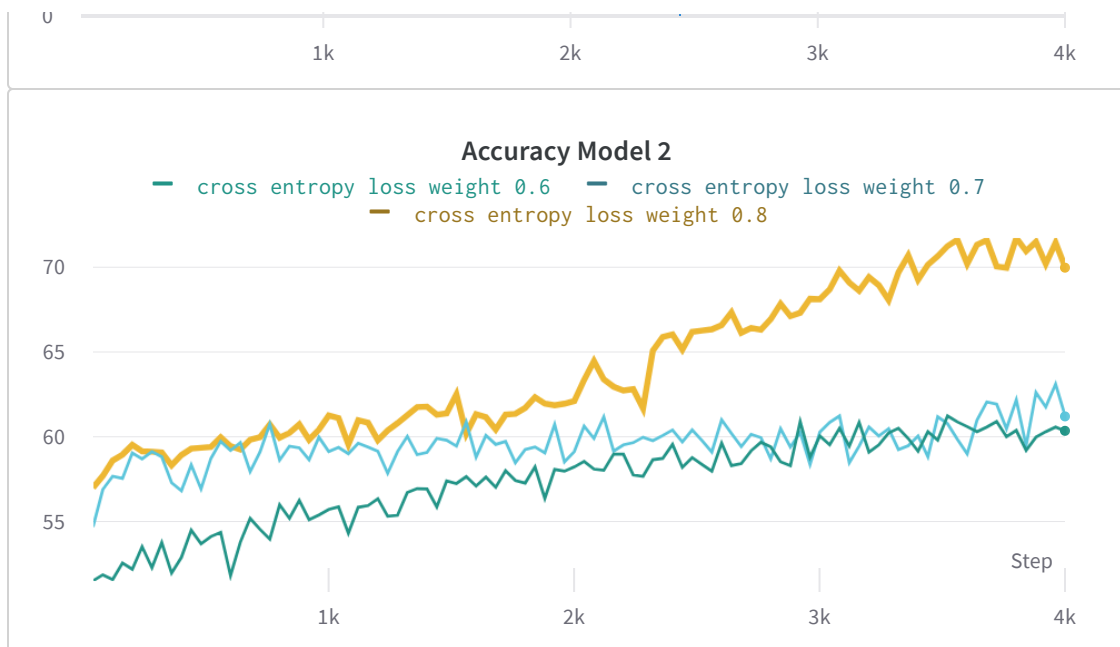# Different weights for Cross-Entropy Loss

In order to train our network, the classifiers have 2 losses - Cross-Entropy and Discriminator loss (model separation). The network train on different weight for each loss. In the graphs we can see that the model gets accuracy of ~70% with weight of 0.8, and the other two, don't get satisfied results.

Daniel Afrimi

▾ Graphs

Accuracy of Ensemble 2 Models

— cross entropy loss weight 0.6   — cross entropy loss weight 0.7
— cross entropy loss weight 0.8

cross…0.8 2440:	65.65
cross…0.6 2440:	61.35
cross…0.7 2440:	60.95

running loss disc

— cross entropy loss weight 0.6   — cross entropy loss weight 0.7
— cross entropy loss weight 0.8

cross…0.6 2440:	2.594
cross…0.7 2440:	2.474
cross…0.8 2440:	2.364

Accuracy Model 2
— cross entropy loss weight 0.6   — cross entropy loss weight 0.7
— cross entropy loss weight 0.8

Accuracy Model 1
— cross entropy loss weight 0.6   — cross entropy loss weight 0.7
— cross entropy loss weight 0.8

running loss classifier_1
— cross entropy loss weight 0.6   — cross entropy loss weight 0.7
— cross entropy loss weight 0.8

running loss classifier_2
— cross entropy loss weight 0.6   — cross entropy loss weight 0.7
— cross entropy loss weight 0.8

Created with ❤️ on Weights & Biases.

https://wandb.ai/danielafrimi/pytorch-demo/reports/Different-weights-for-Cross-Entropy-Loss--Vmlldzo5MDY4Mjg