

- This document contains informations about NSML sessions that has been used for our experiments.
- Each has session number in our NSML account, hyperparameter information, and GitHub folder that it relates to.
- Unless specified, all accuracy values are derived from Res18baseMM_best model's top1 validation accuracy, which is calculated via 4k labeled validation set.
- We used pre-trained models for EfficientNet-b3 from ImageNet. Link can be find here. Pre-trained model is also included in our repo.
<https://github.com/lukemelas/EfficientNet-PyTorch>.
- Exact code used in these experiments are contained in experiments folder. Cleaned up version of codes for three threshold policy are in root directory.
- ths = threshold, ulb = unlabeled, lu = lambda_u, MSE = Mean Squared Error, CE = Cross Entropy
- Unless specified, default value of lu is 150 in MSE and 1 in CE.

Presentation

Experiment 1

kaist_15/fashion_eval/401, Adaptive Threshold, 0.5 minimum ths, MSE ulb loss

kaist_15/fashion_eval/405, MixMatch Basic

kaist_15/fashion_eval/408, Fixed Threshold, threshold 0.8, MSE ulb loss

Experiment 2

kaist_15/fashion_eval/431, Adaptive Threshold, 0.5 minimum ths, CE ulb loss

kaist_15/fashion_eval/405, MixMatch Basic

Experiment 3

kaist_15/fashion_eval/477, Adaptive Threshold, 0.5 minimum ths, CE ulb loss

kaist_15/fashion_eval/478, MixMatch Basic

Report

Experiment 3.2

kaist_15/fashion_eval/401, Adaptive Threshold, 0.5 minimum ths, MSE ulb loss

kaist_15/fashion_eval/405, MixMatch Basic

kaist_15/fashion_eval/488, MixMatch Basic

kaist_15/fashion_eval/408, Fixed Threshold, threshold 0.8, MSE ulb loss

Experiment 3.3

kaist_15/fashion_eval/405, MixMatch Basic

kaist_15/fashion_eval/488, MixMatch Basic

kaist_15/fashion_eval/408, Fixed Threshold

kaist_15/fashion_eval/431, Adaptive Threshold, 0.5 minimum ths, CE ulb loss

kaist_15/fashion_eval/467, Adaptive Threshold, 0.5 minimum ths, CE ulb loss, lu = 1.5

kaist_15/fashion_eval/468, Adaptive Threshold, 0.5 minimum ths, CE ulb loss, lu = 2

Experiment 3.4

kaist_15/fashion_eval/477, Adaptive Threshold, 0.5 minimum ths, CE ulb loss

kaist_15/fashion_eval/478, MixMatch Basic