



FAQ

1. *Should I implement hyperparameter search in the code or it is fine to test manually?*
 - Due to Colab limitations, it is ok to test hyperparameters by manually changing them in the code
2. *The Discriminator loss doesn't increase*
 - The feature extractor tries to maximize the loss of the discriminator
 - However, the Discriminator is still trying to minimize its own loss
3. *Results with DANN have small or no improvements*
 - Even 1-2% increases on PACS are significant
 - The implementation might not yield adaptation results in this setting
 - Optional things that you can try:
 - i. Advanced exponential scheduling for alpha (check DANN paper)
 - ii. Different implementations for the discriminator (experiment, check DANN paper)
 - iii. Implement the exact AlexNet architecture in pytorch, load pre-trained weights from the original caffe model, adjust inputs to fit pytorch preprocessing ([0-255] -> [0-1], BGR -> RGB)