

Lab 7 - Optimizers and Loss Functions

Computer Vision (10224)



Goals

- Learn about different Optimizers.
- Learn about different type of loss functions.
- Train a Model!

Preparatory report

1. Read about the following optimizers and write down what you understood:
 - [Adam](#)
 - SGD
 - [AdamW](#)
2. Implement the following optimizers using pytorch (You may use Pytorch or other Github implementations).
3. Read about the following losses and write down what you understood:
 - Binary Cross Entropy with logits loss (BCEwithLogitsLoss)
 - Cross Entropy
 - [Focal Loss](#)
 - [Dice](#)
4. Implement the Focal Loss function, you may not used online/git implementations.

Lab Session

1. Will be revealed prior to the lab.

Final Report

1. Will be revealed prior to the lab.