Logging

Setup

Data Augmentation:

A screenshot of a computer code

Description automatically generated

Stratified Batches to achieve balance of classes:

A computer code with text

Description automatically generated with medium confidence

Data Batches:

A screenshot of a computer code

Description automatically generated

Criterion & Optimiser:

A close-up of a computer screen

Description automatically generated

# Pytorch ResNet-18 (ImageNet trained)

## Training weights of one FC layer (512->1)

A graph with a line going up

Description automatically generated

A graph with lines and numbers

Description automatically generated

Test Loss: 0.5038, Test Accuracy: 75.1094

Model: ResNet18\_fc\_2025-01-22.pth

## Training weights on ResNet layer 4 + FC layer

A graph with numbers and lines

Description automatically generated

A graph on a screen

Description automatically generated

Test Loss: 0.8680, Test Accuracy: 0.8031

Model: ResNet18\_fc+layer4\_2025-01-22.pth

# Pytorch ResNet-50 (ImageNet trained)

## Training weights of one FC layer (2048->1)

A graph with lines and numbers

Description automatically generated

A graph with lines and numbers

Description automatically generated

Test Loss: 0.5966, Test Accuracy: 68.3260

Model: ResNet50\_fc\_2025-01-22.pth

## Training weights on ResNet layer 4 + FC layer

A graph with a line going up

Description automatically generated

A graph with lines and numbers

Description automatically generated

Test Loss: 0.8204, Test Accuracy: 80.9628

Model: ResNet50\_fc+layer4\_2025-01-22.pth

# Pytorch ResNet-18 (ImageNet trained)

Same setup with different loss criterion



## Training weights of one FC layer (512->1)

A graph with orange line

Description automatically generated

A graph with lines and numbers

Description automatically generated