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 computer screen shot of a computer program

Description automatically generated with medium confidence

# 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 of a line graph

Description automatically generated with medium confidence

## Training weights on ResNet layer 4 + FC layer

A graph with a purple line

Description automatically generated

A graph with lines and numbers

Description automatically generated

## Training weights on ResNet layer 4 + FC layer. With dropout before final FC layer.

Still see overfitting – likely occurs in layer 4…

A graph with a line going up

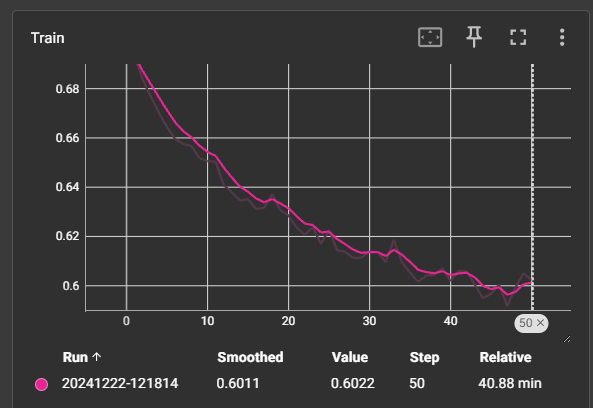
Description automatically generated

A graph of a graph with numbers and lines

Description automatically generated with medium confidence

# Pytorch ResNet-50 (ImageNet trained)

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



A graph with lines and numbers

Description automatically generated

## 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

# 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