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50.039 - Deep Learning Homework #4 (Coding)

**Transfer Learning Task**

Choice of pretrained network: Resnet-18

Trained over: 15 epochs (batchsize 32, learning rate 0.002)

Loss: Cross Entropy Loss

Transformations:

MEAN = [0.485, 0.456, 0.406]

STD = [0.229, 0.224, 0.225]

* Training
  + transforms.RandomHorizontalFlip(0.5)
  + transforms.RandomResizedCrop(224)
  + transforms.ToTensor()
  + transforms.Normalize(MEAN,STD)
* Validation/Testing
  + transforms.Resize(224)
  + transforms.CenterCrop(224)
  + transforms.ToTensor()
  + transforms.Normalize(MEAN,STD)

Performance:

|  |  |  |  |
| --- | --- | --- | --- |
| Mode | Validation Accuracy (Best Epoch) | Test Accuracy | Remarks |
| A |  |  |  |
| B |  |  |  |
| C |  |  |  |

Appendix

Print log:



