Pets Classification

Using Fine-Tuned Pre-trained Network (ResNet34)

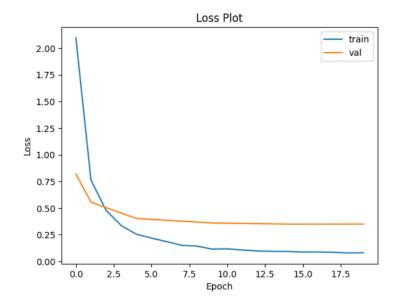
by Rajat Chakraborty

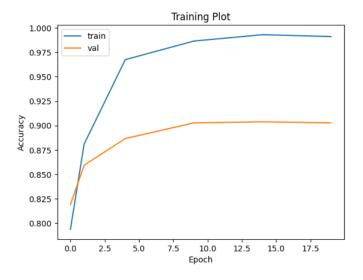
1. Fine-tuned ResNet

a. Network Information:

=====		
- conv1	:	9408
- bn1	:	128
- relu	:	0
- maxpool	:	0
- layer1	:	221952
- layer2	:	1116416
- layer3	:	6822400
- layer4	:	13114368
- avgpool	:	0
- fc	:	18981
=====		
Total	:	21303653 params

b. Plot accuracy and loss:





c. Best test accuracy: 90.16%

Specification: num_epochs = 20, test_interval = 5, learn_rate = 0.000095

2. Building Own Network

a. Network Information

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=====		
- conv1	:	9408
- bn1	:	128
- maxpool	:	0
- layer1	:	147968
- layer2	:	525568
- layer3	:	2099712
- avgpool	:	0
- fc	:	9509
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Total	:	2792293 params

b. Best test accuracy: **39.19%** with only ~2.8M parameters