

Assignment Set 12

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In this exercise, I used "Resnet" pre-trained models. For the "Linnaeus" data set, the result was as follows:

Resnet50	Resnet101
Epoch 1/3 ----- train loss: 0.3179, acc: 0.9013 test loss: 0.1096, acc: 0.9675	Epoch 1/3 ----- train loss: 0.2564, acc: 0.9220 test loss: 0.1111, acc: 0.9635
Epoch 2/3 ----- train loss: 0.1282, acc: 0.9555 test loss: 0.1044, acc: 0.9665	Epoch 2/3 ----- train loss: 0.1218, acc: 0.9603 test loss: 0.0768, acc: 0.9730
Epoch 3/3 ----- train loss: 0.1099, acc: 0.9623 test loss: 0.0955, acc: 0.9685	Epoch 3/3 ----- train loss: 0.1094, acc: 0.9652 test loss: 0.0748, acc: 0.9710

As can be seen in the table, the loss in each epoch has decreased and the accuracy has increased. it can also be seen that the accuracy of the resnet101 is slightly better than the resnet50 model by comparing the values in the table.

My experience in using these models is that they had a lot of execution time, but acceptable accuracy was achieved, which also worked well on the test set and did not over fitted.