10\*10 = 0.688 20 epochs – continuing to go up

30\*10 = 0.800 20 epochs – continuing to go up

50\*10 = 0.838 20 epochs – continuing to go up

70\*10 = 0.855 19 epochs

90\*10 = 0.847 16

10\*10 = 0.662 20

10\*30 = 0.770 18

10\*50 0.808 19

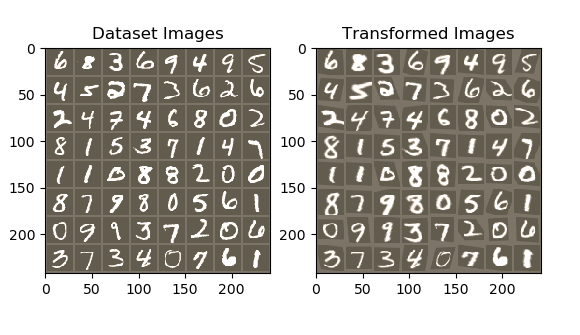
10\*70 0.817 19

10\*90 0.751 17

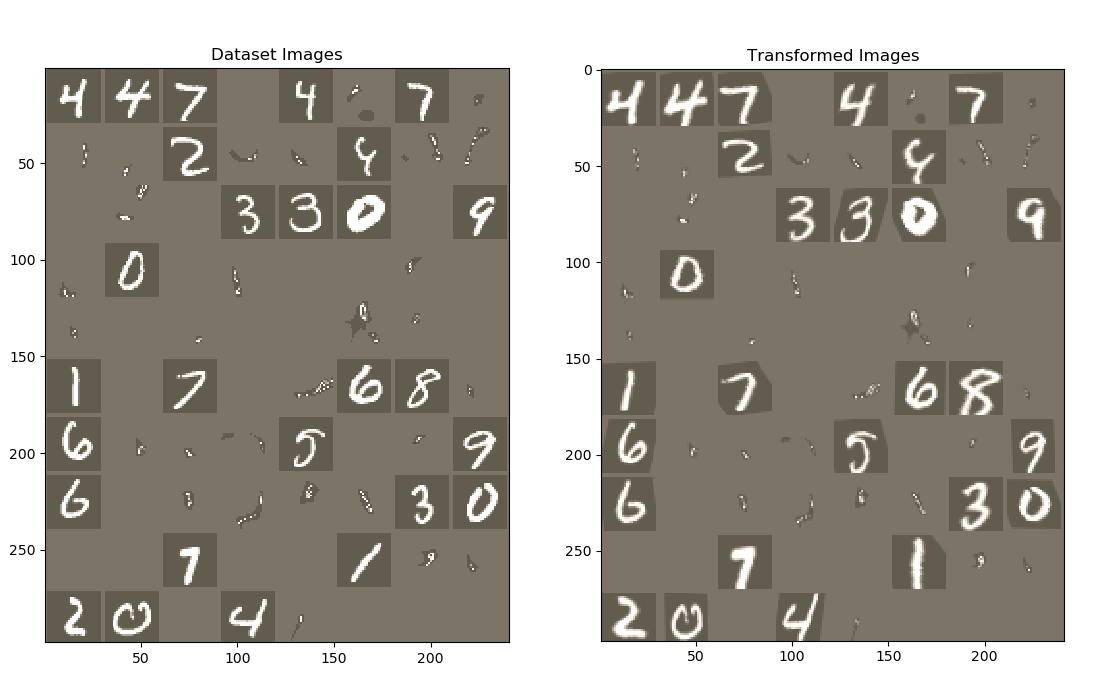
Table of epochs required for max test set accuracy @ learning rate 0.01

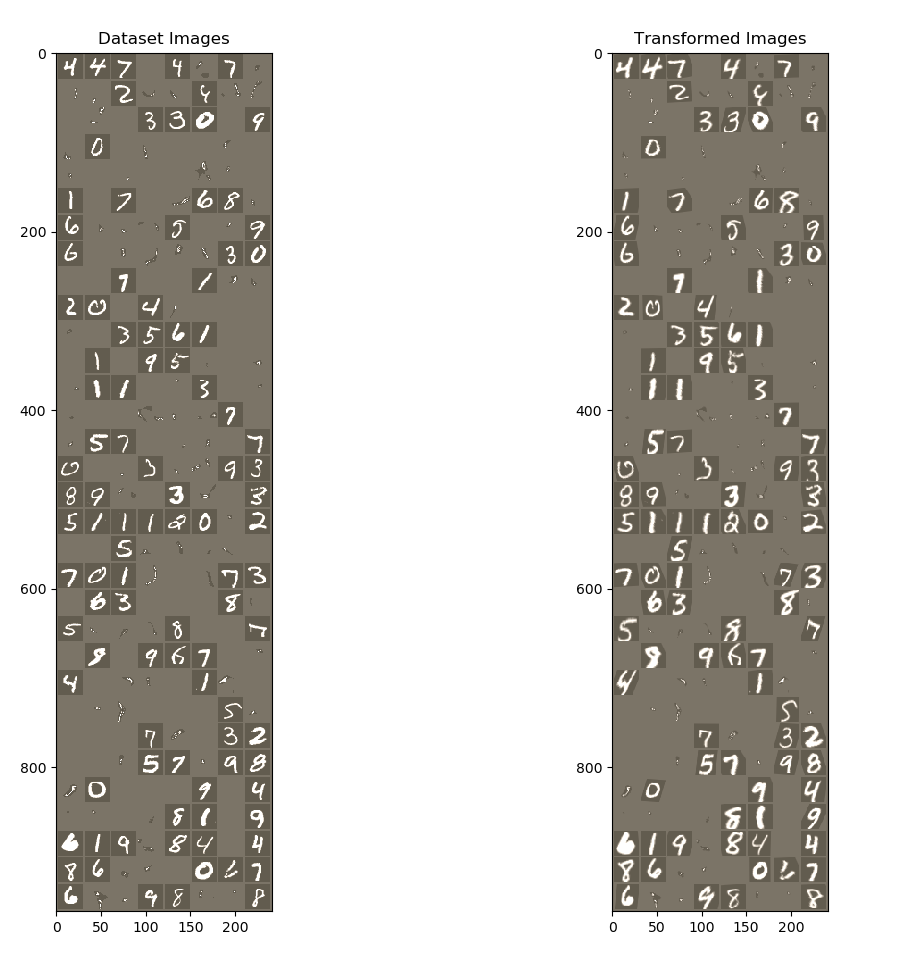
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 10\*10 | 30\*10 | 50\*10 | 70\*10 | 90\*10 |
| Resnet50 | 201 | 201 | 201 | 19 | 16 |
| Vgg19 | 201 | 18 | 19 | 19 | 17 |

Highest accuracy of the Transformer model on the test set was 9877/10000 (99%) on epoch 16.



Transformer Model with random and zoom deformations





Transformer Model with zoom and random deformations – training and test accuracy over time.

