

Epoch 1/100  
121/121 [=====] - 34s 145ms/step - loss: 1.8715 - sparse\_categorical\_accuracy: 0.4127 - val\_loss: 3.5062 - val\_sparse\_categorical\_accuracy: 0.0667

Epoch 2/100  
121/121 [=====] - 15s 123ms/step - loss: 1.3821 - sparse\_categorical\_accuracy: 0.5553 - val\_loss: 3.2738 - val\_sparse\_categorical\_accuracy: 0.1698

Epoch 3/100  
121/121 [=====] - 14s 117ms/step - loss: 1.1935 - sparse\_categorical\_accuracy: 0.6133 - val\_loss: 3.8725 - val\_sparse\_categorical\_accuracy: 0.1177

Epoch 4/100  
121/121 [=====] - 15s 122ms/step - loss: 1.0591 - sparse\_categorical\_accuracy: 0.6546 - val\_loss: 1.8469 - val\_sparse\_categorical\_accuracy: 0.4339

Epoch 5/100  
121/121 [=====] - 14s 118ms/step - loss: 0.9068 - sparse\_categorical\_accuracy: 0.7051 - val\_loss: 1.9822 - val\_sparse\_categorical\_accuracy: 0.4276

Epoch 6/100  
121/121 [=====] - 15s 123ms/step - loss: 0.7979 - sparse\_categorical\_accuracy: 0.7409 - val\_loss: 1.2588 - val\_sparse\_categorical\_accuracy: 0.6281

Epoch 7/100  
121/121 [=====] - 14s 119ms/step - loss: 0.6767 - sparse\_categorical\_accuracy: 0.7777 - val\_loss: 2.4234 - val\_sparse\_categorical\_accuracy: 0.4187

Epoch 8/100  
121/121 [=====] - 14s 119ms/step - loss: 0.5636 - sparse\_categorical\_accuracy: 0.8158 - val\_loss: 1.6789 - val\_sparse\_categorical\_accuracy: 0.5542

Epoch 9/100  
121/121 [=====] - 15s 120ms/step - loss: 0.4356 - sparse\_categorical\_accuracy: 0.8543 - val\_loss: 1.6319 - val\_sparse\_categorical\_accuracy: 0.5891

Epoch 10/100  
121/121 [=====] - 15s 121ms/step - loss: 0.3207 - sparse\_categorical\_accuracy: 0.8951 - val\_loss: 1.7636 - val\_sparse\_categorical\_accuracy: 0.5708

Epoch 11/100  
121/121 [=====] - 15s 120ms/step - loss: 0.2435 - sparse\_categorical\_accuracy: 0.9175 - val\_loss: 2.3969 - val\_sparse\_categorical\_accuracy: 0.5484

Epoch 12/100  
121/121 [=====] - 15s 121ms/step - loss: 0.1701 - sparse\_categorical\_accuracy: 0.9441 - val\_loss: 2.2807 - val\_sparse\_categorical\_accuracy: 0.5510

Epoch 13/100  
121/121 [=====] - 15s 121ms/step - loss: 0.1409 - sparse\_categorical\_accuracy: 0.9519 - val\_loss: 2.5994 - val\_sparse\_categorical\_accuracy: 0.5594

Epoch 14/100  
121/121 [=====] - 15s 122ms/step - loss: 0.1239 - sparse\_categorical\_accuracy: 0.9586 - val\_loss: 2.1818 - val\_sparse\_categorical\_accuracy: 0.5464

Epoch 15/100

121/121 [=====] - 15s 121ms/step - loss: 0.0983 - sparse\_categorical\_accuracy:  
0.9676 - val\_loss: 2.2923 - val\_sparse\_categorical\_accuracy: 0.5833  
Epoch 16/100  
121/121 [=====] - 15s 122ms/step - loss: 0.0847 - sparse\_categorical\_accuracy:  
0.9716 - val\_loss: 2.2447 - val\_sparse\_categorical\_accuracy: 0.5979  
Epoch 17/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0817 - sparse\_categorical\_accuracy:  
0.9730 - val\_loss: 2.1224 - val\_sparse\_categorical\_accuracy: 0.5917  
Epoch 18/100  
121/121 [=====] - 15s 122ms/step - loss: 0.0603 - sparse\_categorical\_accuracy:  
0.9795 - val\_loss: 2.2300 - val\_sparse\_categorical\_accuracy: 0.6391  
Epoch 19/100  
121/121 [=====] - 15s 122ms/step - loss: 0.0781 - sparse\_categorical\_accuracy:  
0.9738 - val\_loss: 2.2422 - val\_sparse\_categorical\_accuracy: 0.6396  
Epoch 20/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0536 - sparse\_categorical\_accuracy:  
0.9821 - val\_loss: 1.8998 - val\_sparse\_categorical\_accuracy: 0.6432  
Epoch 21/100  
121/121 [=====] - 15s 122ms/step - loss: 0.0356 - sparse\_categorical\_accuracy:  
0.9883 - val\_loss: 2.1157 - val\_sparse\_categorical\_accuracy: 0.6214  
Epoch 22/100  
121/121 [=====] - 15s 122ms/step - loss: 0.0665 - sparse\_categorical\_accuracy:  
0.9769 - val\_loss: 2.7880 - val\_sparse\_categorical\_accuracy: 0.5880  
Epoch 23/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0593 - sparse\_categorical\_accuracy:  
0.9793 - val\_loss: 2.7386 - val\_sparse\_categorical\_accuracy: 0.5932  
Epoch 24/100  
121/121 [=====] - 15s 125ms/step - loss: 0.0534 - sparse\_categorical\_accuracy:  
0.9813 - val\_loss: 1.9075 - val\_sparse\_categorical\_accuracy: 0.6531  
Epoch 25/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0476 - sparse\_categorical\_accuracy:  
0.9840 - val\_loss: 2.6104 - val\_sparse\_categorical\_accuracy: 0.5672  
Epoch 26/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0304 - sparse\_categorical\_accuracy:  
0.9901 - val\_loss: 2.2684 - val\_sparse\_categorical\_accuracy: 0.6594  
Epoch 27/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0331 - sparse\_categorical\_accuracy:  
0.9885 - val\_loss: 2.5232 - val\_sparse\_categorical\_accuracy: 0.6135  
Epoch 28/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0501 - sparse\_categorical\_accuracy:  
0.9842 - val\_loss: 2.7195 - val\_sparse\_categorical\_accuracy: 0.6089  
Epoch 29/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0396 - sparse\_categorical\_accuracy:  
0.9867 - val\_loss: 4.8122 - val\_sparse\_categorical\_accuracy: 0.4557

Epoch 30/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0294 - sparse\_categorical\_accuracy:  
0.9905 - val\_loss: 2.0642 - val\_sparse\_categorical\_accuracy: 0.6641

Epoch 31/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0264 - sparse\_categorical\_accuracy:  
0.9915 - val\_loss: 2.2407 - val\_sparse\_categorical\_accuracy: 0.6385

Epoch 32/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0483 - sparse\_categorical\_accuracy:  
0.9834 - val\_loss: 2.7951 - val\_sparse\_categorical\_accuracy: 0.5724

Epoch 33/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0584 - sparse\_categorical\_accuracy:  
0.9810 - val\_loss: 4.9148 - val\_sparse\_categorical\_accuracy: 0.4349

Epoch 34/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0557 - sparse\_categorical\_accuracy:  
0.9816 - val\_loss: 3.0398 - val\_sparse\_categorical\_accuracy: 0.5458

Epoch 35/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0229 - sparse\_categorical\_accuracy:  
0.9930 - val\_loss: 2.0821 - val\_sparse\_categorical\_accuracy: 0.6557

Epoch 36/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0126 - sparse\_categorical\_accuracy:  
0.9966 - val\_loss: 2.6492 - val\_sparse\_categorical\_accuracy: 0.5813

Epoch 37/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0091 - sparse\_categorical\_accuracy:  
0.9974 - val\_loss: 2.9558 - val\_sparse\_categorical\_accuracy: 0.5854

Epoch 38/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0216 - sparse\_categorical\_accuracy:  
0.9930 - val\_loss: 2.4491 - val\_sparse\_categorical\_accuracy: 0.6344

Epoch 39/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0680 - sparse\_categorical\_accuracy:  
0.9773 - val\_loss: 4.5511 - val\_sparse\_categorical\_accuracy: 0.4667

Epoch 40/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0746 - sparse\_categorical\_accuracy:  
0.9757 - val\_loss: 3.2696 - val\_sparse\_categorical\_accuracy: 0.5547

Epoch 41/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0373 - sparse\_categorical\_accuracy:  
0.9882 - val\_loss: 2.1111 - val\_sparse\_categorical\_accuracy: 0.6526

Epoch 42/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0161 - sparse\_categorical\_accuracy:  
0.9948 - val\_loss: 2.7851 - val\_sparse\_categorical\_accuracy: 0.5771

Epoch 43/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0160 - sparse\_categorical\_accuracy:  
0.9948 - val\_loss: 2.1659 - val\_sparse\_categorical\_accuracy: 0.6682

Epoch 44/100

121/121 [=====] - 15s 123ms/step - loss: 0.0098 - sparse\_categorical\_accuracy:  
0.9969 - val\_loss: 2.1009 - val\_sparse\_categorical\_accuracy: 0.6885  
Epoch 45/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0157 - sparse\_categorical\_accuracy:  
0.9951 - val\_loss: 2.2049 - val\_sparse\_categorical\_accuracy: 0.6583  
Epoch 46/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0389 - sparse\_categorical\_accuracy:  
0.9875 - val\_loss: 2.7155 - val\_sparse\_categorical\_accuracy: 0.6026  
Epoch 47/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0530 - sparse\_categorical\_accuracy:  
0.9820 - val\_loss: 3.1319 - val\_sparse\_categorical\_accuracy: 0.5531  
Epoch 48/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0380 - sparse\_categorical\_accuracy:  
0.9885 - val\_loss: 2.9116 - val\_sparse\_categorical\_accuracy: 0.5854  
Epoch 49/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0202 - sparse\_categorical\_accuracy:  
0.9924 - val\_loss: 2.6182 - val\_sparse\_categorical\_accuracy: 0.6130  
Epoch 50/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0275 - sparse\_categorical\_accuracy:  
0.9906 - val\_loss: 3.0110 - val\_sparse\_categorical\_accuracy: 0.5734  
Epoch 51/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0391 - sparse\_categorical\_accuracy:  
0.9868 - val\_loss: 3.7124 - val\_sparse\_categorical\_accuracy: 0.5208  
Epoch 52/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0424 - sparse\_categorical\_accuracy:  
0.9866 - val\_loss: 2.8714 - val\_sparse\_categorical\_accuracy: 0.5745  
Epoch 53/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0211 - sparse\_categorical\_accuracy:  
0.9935 - val\_loss: 2.7707 - val\_sparse\_categorical\_accuracy: 0.5948  
Epoch 54/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0193 - sparse\_categorical\_accuracy:  
0.9935 - val\_loss: 2.6184 - val\_sparse\_categorical\_accuracy: 0.6281  
Epoch 55/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0113 - sparse\_categorical\_accuracy:  
0.9964 - val\_loss: 2.2209 - val\_sparse\_categorical\_accuracy: 0.6651  
Epoch 56/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0078 - sparse\_categorical\_accuracy:  
0.9978 - val\_loss: 2.9569 - val\_sparse\_categorical\_accuracy: 0.5917  
Epoch 57/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0101 - sparse\_categorical\_accuracy:  
0.9970 - val\_loss: 2.3002 - val\_sparse\_categorical\_accuracy: 0.6599  
Epoch 58/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0085 - sparse\_categorical\_accuracy:  
0.9973 - val\_loss: 2.6971 - val\_sparse\_categorical\_accuracy: 0.6057

Epoch 59/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0124 - sparse\_categorical\_accuracy:  
0.9964 - val\_loss: 4.0214 - val\_sparse\_categorical\_accuracy: 0.5354  
Epoch 60/100  
121/121 [=====] - 15s 125ms/step - loss: 0.0375 - sparse\_categorical\_accuracy:  
0.9880 - val\_loss: 3.1198 - val\_sparse\_categorical\_accuracy: 0.5891  
Epoch 61/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0585 - sparse\_categorical\_accuracy:  
0.9813 - val\_loss: 2.8581 - val\_sparse\_categorical\_accuracy: 0.5859  
Epoch 62/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0312 - sparse\_categorical\_accuracy:  
0.9899 - val\_loss: 2.3880 - val\_sparse\_categorical\_accuracy: 0.6604  
Epoch 63/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0212 - sparse\_categorical\_accuracy:  
0.9938 - val\_loss: 2.5355 - val\_sparse\_categorical\_accuracy: 0.6339  
Epoch 64/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0320 - sparse\_categorical\_accuracy:  
0.9895 - val\_loss: 3.1446 - val\_sparse\_categorical\_accuracy: 0.5865  
Epoch 65/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0138 - sparse\_categorical\_accuracy:  
0.9953 - val\_loss: 2.4248 - val\_sparse\_categorical\_accuracy: 0.6521  
Epoch 66/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0038 - sparse\_categorical\_accuracy:  
0.9989 - val\_loss: 2.1680 - val\_sparse\_categorical\_accuracy: 0.6698  
Epoch 67/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0019 - sparse\_categorical\_accuracy:  
0.9994 - val\_loss: 1.9786 - val\_sparse\_categorical\_accuracy: 0.6901  
Epoch 68/100  
121/121 [=====] - 15s 124ms/step - loss: 7.5106e-04 - sparse\_categorical\_accuracy:  
0.9999 - val\_loss: 2.1420 - val\_sparse\_categorical\_accuracy: 0.6760  
Epoch 69/100  
121/121 [=====] - 15s 124ms/step - loss: 3.9492e-04 - sparse\_categorical\_accuracy:  
0.9999 - val\_loss: 2.0803 - val\_sparse\_categorical\_accuracy: 0.6932  
Epoch 70/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0034 - sparse\_categorical\_accuracy:  
0.9992 - val\_loss: 3.4269 - val\_sparse\_categorical\_accuracy: 0.5568  
Epoch 71/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0377 - sparse\_categorical\_accuracy:  
0.9870 - val\_loss: 3.7777 - val\_sparse\_categorical\_accuracy: 0.5432  
Epoch 72/100  
121/121 [=====] - 15s 123ms/step - loss: 0.0913 - sparse\_categorical\_accuracy:  
0.9709 - val\_loss: 2.5310 - val\_sparse\_categorical\_accuracy: 0.6266  
Epoch 73/100

121/121 [=====] - 15s 124ms/step - loss: 0.0288 - sparse\_categorical\_accuracy:  
0.9901 - val\_loss: 2.6993 - val\_sparse\_categorical\_accuracy: 0.5958  
Epoch 74/100  
121/121 [=====] - 15s 124ms/step - loss: 0.0091 - sparse\_categorical\_accuracy:  
0.9975 - val\_loss: 2.1111 - val\_sparse\_categorical\_accuracy: 0.6620  
Epoch 75/100  
121/121 [=====] - 15s 125ms/step - loss: 0.0020 - sparse\_categorical\_accuracy:  
0.9997 - val\_loss: 1.9367 - val\_sparse\_categorical\_accuracy: 0.7089  
Epoch 76/100  
121/121 [=====] - 15s 124ms/step - loss: 4.3584e-04 - sparse\_categorical\_accuracy:  
0.9999 - val\_loss: 1.9306 - val\_sparse\_categorical\_accuracy: 0.7109  
Epoch 77/100  
121/121 [=====] - 15s 124ms/step - loss: 2.4572e-04 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9162 - val\_sparse\_categorical\_accuracy: 0.7115  
Epoch 78/100  
121/121 [=====] - 15s 123ms/step - loss: 1.5261e-04 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9178 - val\_sparse\_categorical\_accuracy: 0.7099  
Epoch 79/100  
121/121 [=====] - 15s 124ms/step - loss: 1.0069e-04 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9095 - val\_sparse\_categorical\_accuracy: 0.7104  
Epoch 80/100  
121/121 [=====] - 15s 124ms/step - loss: 6.8329e-05 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9134 - val\_sparse\_categorical\_accuracy: 0.7130  
Epoch 81/100  
121/121 [=====] - 15s 124ms/step - loss: 6.3348e-05 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9191 - val\_sparse\_categorical\_accuracy: 0.7130  
Epoch 82/100  
121/121 [=====] - 15s 125ms/step - loss: 5.2754e-05 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9307 - val\_sparse\_categorical\_accuracy: 0.7115  
Epoch 83/100  
121/121 [=====] - 15s 124ms/step - loss: 6.0473e-05 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9344 - val\_sparse\_categorical\_accuracy: 0.7167  
Epoch 84/100  
121/121 [=====] - 15s 124ms/step - loss: 5.2715e-05 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9404 - val\_sparse\_categorical\_accuracy: 0.7135  
Epoch 85/100  
121/121 [=====] - 15s 124ms/step - loss: 4.4811e-05 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9444 - val\_sparse\_categorical\_accuracy: 0.7109  
Epoch 86/100  
121/121 [=====] - 15s 124ms/step - loss: 5.6145e-05 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9448 - val\_sparse\_categorical\_accuracy: 0.7146  
Epoch 87/100  
121/121 [=====] - 15s 124ms/step - loss: 3.3961e-05 - sparse\_categorical\_accuracy:  
1.0000 - val\_loss: 1.9503 - val\_sparse\_categorical\_accuracy: 0.7104

Epoch 88/100  
 121/121 [=====] - 15s 124ms/step - loss: 2.5877e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9525 - val\_sparse\_categorical\_accuracy: 0.7161

Epoch 89/100  
 121/121 [=====] - 15s 125ms/step - loss: 3.0505e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9554 - val\_sparse\_categorical\_accuracy: 0.7130

Epoch 90/100  
 121/121 [=====] - 15s 124ms/step - loss: 2.3975e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9592 - val\_sparse\_categorical\_accuracy: 0.7146

Epoch 91/100  
 121/121 [=====] - 15s 123ms/step - loss: 2.2609e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9654 - val\_sparse\_categorical\_accuracy: 0.7161

Epoch 92/100  
 121/121 [=====] - 15s 124ms/step - loss: 2.3479e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9677 - val\_sparse\_categorical\_accuracy: 0.7177

Epoch 93/100  
 121/121 [=====] - 16s 131ms/step - loss: 2.0606e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9708 - val\_sparse\_categorical\_accuracy: 0.7161

Epoch 94/100  
 121/121 [=====] - 16s 133ms/step - loss: 2.2174e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9810 - val\_sparse\_categorical\_accuracy: 0.7141

Epoch 95/100  
 121/121 [=====] - 15s 126ms/step - loss: 3.1248e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9947 - val\_sparse\_categorical\_accuracy: 0.7151

Epoch 96/100  
 121/121 [=====] - 15s 124ms/step - loss: 2.7743e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9963 - val\_sparse\_categorical\_accuracy: 0.7161

Epoch 97/100  
 121/121 [=====] - 16s 130ms/step - loss: 1.9443e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 2.0010 - val\_sparse\_categorical\_accuracy: 0.7177

Epoch 98/100  
 121/121 [=====] - 15s 125ms/step - loss: 1.5903e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 1.9975 - val\_sparse\_categorical\_accuracy: 0.7182

Epoch 99/100  
 121/121 [=====] - 15s 124ms/step - loss: 1.7533e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 2.0212 - val\_sparse\_categorical\_accuracy: 0.7135

Epoch 100/100  
 121/121 [=====] - 15s 123ms/step - loss: 1.4230e-05 - sparse\_categorical\_accuracy: 1.0000 - val\_loss: 2.0074 - val\_sparse\_categorical\_accuracy: 0.7172

Model: "shallow\_res\_3"

Layer (type)	Output Shape	Param #
=====		
conv2d_46 (Conv2D)	multiple	9472

batch_normalization_46 (Batch Normalization)	multiple	256
activation_37 (Activation)	multiple	0
max_pooling2d_3 (MaxPooling2D)	multiple	0
sequential_3 (Sequential)	(None, 4, 4, 512)	11181184
global_average_pooling2d_3 (GlobalAveragePooling2D)	multiple	0
dense_3 (Dense)	multiple	7695

=====

Total params: 11,198,607  
Trainable params: 11,189,007  
Non-trainable params: 9,600

Training and Validation Accuracy Training and Validation Loss

