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CIFAR10ResOUT.txt

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```
(venv) ostop@ostap-All-Series:~/Documents/DeepLearning/hw4curro$ python CIFAR10Res.py
Using TensorFlow backend.
(32, 32, 3)
(40000, 32, 32, 3) (40000, 1) (10000, 32, 32, 3) (10000, 1)
Training features shape: (40000, 32, 32, 3)
Validation features shape: (10000, 32, 32, 3)
Test features shape: (10000, 32, 32, 3)
hi (32, 32, 3)
(?, 32, 32, 3)
2018-10-04 00:18:06.742793: I tensorflow/core/platform/cpu_feature_guard.cc:141]
Your CPU supports instructions that this TensorFlow binary was not compiled to
use: AVX2 FMA
2018-10-04 00:18:06.819645: I tensorflow/stream_executor/cuda/cuda_gpu_executor.
cc:964] successful NUMA node read from SysFS had negative value (-1), but there
must be at least one NUMA node, so returning NUMA node zero
2018-10-04 00:18:06.820032: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1
411] Found device 0 with properties:
name: GeForce GTX 980 major: 5 minor: 2 memoryClockRate(GHz): 1.2785
pciBusID: 0000:01:00.0
totalMemory: 3.94GiB freeMemory: 3.05GiB
2018-10-04 00:18:06.870278: I tensorflow/stream_executor/cuda/cuda_gpu_executor.
cc:964] successful NUMA node read from SysFS had negative value (-1), but there
must be at least one NUMA node, so returning NUMA node zero
2018-10-04 00:18:06.870668: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1
411] Found device 1 with properties:
name: GeForce GTX 970 major: 5 minor: 2 memoryClockRate(GHz): 1.329
pciBusID: 0000:02:00.0
totalMemory: 3.94GiB freeMemory: 3.87GiB
2018-10-04 00:18:06.870818: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1
490] Adding visible gpu devices: 0, 1
2018-10-04 00:18:07.225328: I tensorflow/core/common_runtime/gpu/gpu_device.cc:9
71] Device interconnect StreamExecutor with strength 1 edge matrix:
2018-10-04 00:18:07.225360: I tensorflow/core/common_runtime/gpu/gpu_device.cc:9
77]    0 1
2018-10-04 00:18:07.225365: I tensorflow/core/common_runtime/gpu/gpu_device.cc:9
90] 0:    N Y
2018-10-04 00:18:07.225368: I tensorflow/core/common_runtime/gpu/gpu_device.cc:9
90] 1:    Y N
2018-10-04 00:18:07.225597: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1
103] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:0 wit
h 2758 MB memory) -> physical GPU (device: 0, name: GeForce GTX 980, pci bus id:
0000:01:00.0, compute capability: 5.2)
2018-10-04 00:18:07.247495: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1
103] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:1 wit
h 3599 MB memory) -> physical GPU (device: 1, name: GeForce GTX 970, pci bus id:
0000:02:00.0, compute capability: 5.2)
```

Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	(None, 32, 32, 3)	0	
conv2d_2 (Conv2D)	(None, 32, 32, 16)	448	input_1[0][0]
batch_normalization_1 (BatchNor	(None, 32, 32, 16)	64	conv2d_2[0][0]
activation_1 (Activation)	(None, 32, 32, 16)	0	batch_normaliza tion_1[0][0]

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conv2d_3 (Conv2D)	(None, 32, 32, 16)	2320	activation_1[0]
batch_normalization_2 (BatchNor	(None, 32, 32, 16)	64	conv2d_3[0][0]
activation_2 (Activation)	(None, 32, 32, 16)	0	batch_normaliza
conv2d_4 (Conv2D)	(None, 32, 32, 16)	2320	activation_2[0]
batch_normalization_3 (BatchNor	(None, 32, 32, 16)	64	conv2d_4[0][0]
add_1 (Add)	(None, 32, 32, 16)	0	conv2d_2[0][0]
activation_3 (Activation)	(None, 32, 32, 16)	0	batch_normaliza
max_pooling2d_1 (MaxPooling2D)	(None, 16, 16, 16)	0	activation_3[0]
conv2d_6 (Conv2D)	(None, 16, 16, 32)	4640	max_pooling2d_1
batch_normalization_4 (BatchNor	(None, 16, 16, 32)	128	conv2d_6[0][0]
activation_4 (Activation)	(None, 16, 16, 32)	0	batch_normaliza
conv2d_7 (Conv2D)	(None, 16, 16, 32)	9248	activation_4[0]
batch_normalization_5 (BatchNor	(None, 16, 16, 32)	128	conv2d_7[0][0]
activation_5 (Activation)	(None, 16, 16, 32)	0	batch_normaliza
conv2d_8 (Conv2D)	(None, 16, 16, 32)	9248	activation_5[0]
batch_normalization_6 (BatchNor	(None, 16, 16, 32)	128	conv2d_8[0][0]
add_2 (Add)	(None, 16, 16, 32)	0	conv2d_6[0][0]
			batch_normaliza

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tion_6[0][0]			
activation_6 (Activation)	(None, 16, 16, 32)	0	add_2[0][0]
max_pooling2d_2 (MaxPooling2D) [0]	(None, 8, 8, 32)	0	activation_6[0]
conv2d_10 (Conv2D) [0][0]	(None, 8, 8, 64)	18496	max_pooling2d_2
batch_normalization_7 (BatchNor	(None, 8, 8, 64)	256	conv2d_10[0][0]
activation_7 (Activation) tion_7[0][0]	(None, 8, 8, 64)	0	batch_normaliza
conv2d_11 (Conv2D) [0]	(None, 8, 8, 64)	36928	activation_7[0]
batch_normalization_8 (BatchNor	(None, 8, 8, 64)	256	conv2d_11[0][0]
activation_8 (Activation) tion_8[0][0]	(None, 8, 8, 64)	0	batch_normaliza
conv2d_12 (Conv2D) [0]	(None, 8, 8, 64)	36928	activation_8[0]
batch_normalization_9 (BatchNor	(None, 8, 8, 64)	256	conv2d_12[0][0]
add_3 (Add)	(None, 8, 8, 64)	0	conv2d_10[0][0]
tion_9[0][0]			batch_normaliza
activation_9 (Activation)	(None, 8, 8, 64)	0	add_3[0][0]
average_pooling2d_1 (AveragePoo [0]	(None, 1, 1, 64)	0	activation_9[0]
flatten_1 (Flatten) 2d_1[0][0]	(None, 64)	0	average_pooling
dense_1 (Dense)	(None, 10)	650	flatten_1[0][0]
=====			
Total params: 122,570			
Trainable params: 121,898			
Non-trainable params: 672			

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Learning rate: 0.001		
Epoch 1/200		
Learning rate: 0.001		
1250/1250 [=====] - 16s 13ms/step - loss: 1.4749 - acc: 0.4770 - val_loss: 1.3086 - val_acc: 0.5653		
Epoch 2/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 1.1434 - acc: 0.6102 - val_loss: 1.0706 - val_acc: 0.6390		
Epoch 3/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 1.0164 - acc: 0.6596 - val_loss: 1.0562 - val_acc: 0.6459		
Epoch 4/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.9338 - acc: 0.6907 - val_loss: 0.8485 - val_acc: 0.7305		
Epoch 5/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.8820 - acc: 0.7127 - val_loss: 0.8772 - val_acc: 0.7176		
Epoch 6/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.8378 - acc: 0.7308 - val_loss: 0.8777 - val_acc: 0.7195		
Epoch 7/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.8055 - acc: 0.7442 - val_loss: 0.8680 - val_acc: 0.7309		
Epoch 8/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.7774 - acc: 0.7521 - val_loss: 0.8256 - val_acc: 0.7491		
Epoch 9/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.7523 - acc: 0.7671 - val_loss: 0.7356 - val_acc: 0.7768		
Epoch 10/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.7280 - acc: 0.7767 - val_loss: 0.8331 - val_acc: 0.7533		
Epoch 11/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.7158 - acc: 0.7808 - val_loss: 0.7650 - val_acc: 0.7747		
Epoch 12/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.6966 - acc: 0.7886 - val_loss: 0.7739 - val_acc: 0.7728		
Epoch 13/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.6894 - acc: 0.7898 - val_loss: 0.7925 - val_acc: 0.7693		
Epoch 14/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.6781 - acc: 0.7982 - val_loss: 0.7375 - val_acc: 0.7811		
Epoch 15/200		
Learning rate: 0.001		
1250/1250 [=====] - 16s 13ms/step - loss: 0.6620 - acc: 0.8024 - val_loss: 0.7805 - val_acc: 0.7736		
Epoch 16/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.6542 - acc: 0.8081 - val_loss: 0.7039 - val_acc: 0.7909		
Epoch 17/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.6421 - acc:		

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0.8110 - val_loss: 0.7433 - val_acc: 0.7829		
Epoch 18/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.6307 - acc: 0.8163 - val_loss: 0.7693 - val_acc: 0.7715		
Epoch 19/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.6282 - acc: 0.8185 - val_loss: 0.7840 - val_acc: 0.7741		
Epoch 20/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.6202 - acc: 0.8204 - val_loss: 0.6991 - val_acc: 0.8050		
Epoch 21/200		
Learning rate: 0.001		
1250/1250 [=====] - 14s 12ms/step - loss: 0.6152 - acc: 0.8237 - val_loss: 0.6725 - val_acc: 0.8108		
Epoch 22/200		
Learning rate: 0.001		
1250/1250 [=====] - 14s 12ms/step - loss: 0.6072 - acc: 0.8258 - val_loss: 0.8384 - val_acc: 0.7686		
Epoch 23/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5932 - acc: 0.8331 - val_loss: 0.6745 - val_acc: 0.8053		
Epoch 24/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5978 - acc: 0.8315 - val_loss: 0.7057 - val_acc: 0.8035		
Epoch 25/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5868 - acc: 0.8344 - val_loss: 0.6727 - val_acc: 0.8169		
Epoch 26/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5848 - acc: 0.8357 - val_loss: 0.8429 - val_acc: 0.7649		
Epoch 27/200		
Learning rate: 0.001		
1250/1250 [=====] - 16s 12ms/step - loss: 0.5796 - acc: 0.8360 - val_loss: 0.7166 - val_acc: 0.8026		
Epoch 28/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5747 - acc: 0.8420 - val_loss: 0.7497 - val_acc: 0.7998		
Epoch 29/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5698 - acc: 0.8416 - val_loss: 0.9127 - val_acc: 0.7538		
Epoch 30/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5621 - acc: 0.8479 - val_loss: 0.6676 - val_acc: 0.8175		
Epoch 31/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5601 - acc: 0.8465 - val_loss: 0.6992 - val_acc: 0.8107		
Epoch 32/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5561 - acc: 0.8471 - val_loss: 0.7428 - val_acc: 0.8020		
Epoch 33/200		
Learning rate: 0.001		
1250/1250 [=====] - 16s 12ms/step - loss: 0.5502 - acc: 0.8501 - val_loss: 0.7155 - val_acc: 0.8052		
Epoch 34/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5483 - acc: 0.8521 - val_loss: 0.8579 - val_acc: 0.7702		

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Epoch 35/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5466 - acc: 0.8518 - val_loss: 0.8311 - val_acc: 0.7889		
Epoch 36/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5387 - acc: 0.8551 - val_loss: 0.6485 - val_acc: 0.8285		
Epoch 37/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5387 - acc: 0.8536 - val_loss: 0.7839 - val_acc: 0.7875		
Epoch 38/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5335 - acc: 0.8571 - val_loss: 0.8836 - val_acc: 0.7732		
Epoch 39/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5314 - acc: 0.8598 - val_loss: 0.7096 - val_acc: 0.8116		
Epoch 40/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5283 - acc: 0.8605 - val_loss: 0.6620 - val_acc: 0.8289		
Epoch 41/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5231 - acc: 0.8616 - val_loss: 0.7453 - val_acc: 0.8005		
Epoch 42/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5235 - acc: 0.8616 - val_loss: 0.7081 - val_acc: 0.8084		
Epoch 43/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5187 - acc: 0.8619 - val_loss: 0.6772 - val_acc: 0.8221		
Epoch 44/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5217 - acc: 0.8623 - val_loss: 0.7082 - val_acc: 0.8125		
Epoch 45/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5139 - acc: 0.8655 - val_loss: 0.8349 - val_acc: 0.7724		
Epoch 46/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5194 - acc: 0.8636 - val_loss: 0.6772 - val_acc: 0.8148		
Epoch 47/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5143 - acc: 0.8644 - val_loss: 0.6992 - val_acc: 0.8144		
Epoch 48/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5114 - acc: 0.8666 - val_loss: 0.7683 - val_acc: 0.8022		
Epoch 49/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5106 - acc: 0.8669 - val_loss: 0.6363 - val_acc: 0.8359		
Epoch 50/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5093 - acc: 0.8668 - val_loss: 0.6366 - val_acc: 0.8331		
Epoch 51/200		
Learning rate: 0.001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.5007 - acc: 0.8712 - val_loss: 0.8281 - val_acc: 0.7901		
Epoch 52/200		

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Learning rate: 0.001	1250/1250 [=====] - 15s 12ms/step - loss: 0.5039 - acc: 0.8703 - val_loss: 0.7143 - val_acc: 0.8152	
Epoch 53/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4998 - acc: 0.8717 - val_loss: 0.6902 - val_acc: 0.8238		
Epoch 54/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4977 - acc: 0.8729 - val_loss: 0.7263 - val_acc: 0.8140		
Epoch 55/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4977 - acc: 0.8721 - val_loss: 0.7570 - val_acc: 0.8141		
Epoch 56/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4923 - acc: 0.8751 - val_loss: 0.6404 - val_acc: 0.8352		
Epoch 57/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4971 - acc: 0.8732 - val_loss: 0.7372 - val_acc: 0.8139		
Epoch 58/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4905 - acc: 0.8756 - val_loss: 0.7509 - val_acc: 0.8103		
Epoch 59/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4858 - acc: 0.8786 - val_loss: 0.7023 - val_acc: 0.8199		
Epoch 60/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4890 - acc: 0.8757 - val_loss: 0.6721 - val_acc: 0.8264		
Epoch 61/200	Learning rate: 0.001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.4882 - acc: 0.8761 - val_loss: 0.5843 - val_acc: 0.8533		
Epoch 62/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3992 - acc: 0.9085 - val_loss: 0.5102 - val_acc: 0.8722		
Epoch 63/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3784 - acc: 0.9148 - val_loss: 0.5204 - val_acc: 0.8730		
Epoch 64/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3634 - acc: 0.9191 - val_loss: 0.5328 - val_acc: 0.8691		
Epoch 65/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3610 - acc: 0.9205 - val_loss: 0.5261 - val_acc: 0.8700		
Epoch 66/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3548 - acc: 0.9205 - val_loss: 0.5163 - val_acc: 0.8740		
Epoch 67/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3488 - acc: 0.9239 - val_loss: 0.5103 - val_acc: 0.8729		
Epoch 68/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3443 - acc: 0.9259 - val_loss: 0.5043 - val_acc: 0.8739		
Epoch 69/200	Learning rate: 0.0001	

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1250/1250 [=====] - 15s 12ms/step - loss: 0.3443 - acc: 0.9259 - val_loss: 0.5044 - val_acc: 0.8754		
Epoch 70/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3347 - acc: 0.9274 - val_loss: 0.5024 - val_acc: 0.8771		
Epoch 71/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3345 - acc: 0.9262 - val_loss: 0.5101 - val_acc: 0.8768		
Epoch 72/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3302 - acc: 0.9284 - val_loss: 0.5065 - val_acc: 0.8761		
Epoch 73/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3292 - acc: 0.9273 - val_loss: 0.5135 - val_acc: 0.8744		
Epoch 74/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3242 - acc: 0.9311 - val_loss: 0.4954 - val_acc: 0.8768		
Epoch 75/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3227 - acc: 0.9300 - val_loss: 0.5004 - val_acc: 0.8786		
Epoch 76/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3180 - acc: 0.9312 - val_loss: 0.5084 - val_acc: 0.8775		
Epoch 77/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3156 - acc: 0.9315 - val_loss: 0.5106 - val_acc: 0.8766		
Epoch 78/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3130 - acc: 0.9319 - val_loss: 0.5015 - val_acc: 0.8763		
Epoch 79/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3111 - acc: 0.9318 - val_loss: 0.5123 - val_acc: 0.8766		
Epoch 80/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3098 - acc: 0.9336 - val_loss: 0.4992 - val_acc: 0.8789		
Epoch 81/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3051 - acc: 0.9335 - val_loss: 0.4970 - val_acc: 0.8804		
Epoch 82/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3106 - acc: 0.9320 - val_loss: 0.5063 - val_acc: 0.8772		
Epoch 83/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3029 - acc: 0.9349 - val_loss: 0.5012 - val_acc: 0.8770		
Epoch 84/200	Learning rate: 0.0001	
1250/1250 [=====] - 14s 12ms/step - loss: 0.3009 - acc: 0.9348 - val_loss: 0.5256 - val_acc: 0.8722		
Epoch 85/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.3018 - acc: 0.9337 - val_loss: 0.5115 - val_acc: 0.8757		
Epoch 86/200	Learning rate: 0.0001	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2989 - acc:		

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0.9350 - val_loss: 0.5071 - val_acc: 0.8785		
Epoch 87/200		
Learning rate: 0.0001		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2940 - acc: 0.9375 - val_loss: 0.4906 - val_acc: 0.8792		
Epoch 88/200		
Learning rate: 0.0001		
1250/1250 [=====] - 19s 15ms/step - loss: 0.2961 - acc: 0.9354 - val_loss: 0.5134 - val_acc: 0.8752		
Epoch 89/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2908 - acc: 0.9380 - val_loss: 0.5268 - val_acc: 0.8704		
Epoch 90/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2939 - acc: 0.9364 - val_loss: 0.5052 - val_acc: 0.8776		
Epoch 91/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2889 - acc: 0.9382 - val_loss: 0.5071 - val_acc: 0.8752		
Epoch 92/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2880 - acc: 0.9369 - val_loss: 0.5061 - val_acc: 0.8758		
Epoch 93/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2888 - acc: 0.9365 - val_loss: 0.4870 - val_acc: 0.8803		
Epoch 94/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2854 - acc: 0.9376 - val_loss: 0.5062 - val_acc: 0.8750		
Epoch 95/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2847 - acc: 0.9374 - val_loss: 0.5059 - val_acc: 0.8739		
Epoch 96/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2814 - acc: 0.9395 - val_loss: 0.4956 - val_acc: 0.8777		
Epoch 97/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2792 - acc: 0.9395 - val_loss: 0.5021 - val_acc: 0.8763		
Epoch 98/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2774 - acc: 0.9393 - val_loss: 0.5079 - val_acc: 0.8737		
Epoch 99/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2781 - acc: 0.9405 - val_loss: 0.5140 - val_acc: 0.8727		
Epoch 100/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2760 - acc: 0.9406 - val_loss: 0.4972 - val_acc: 0.8777		
Epoch 101/200		
Learning rate: 0.0001		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2778 - acc: 0.9397 - val_loss: 0.4814 - val_acc: 0.8788		
Epoch 102/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2628 - acc: 0.9464 - val_loss: 0.4901 - val_acc: 0.8790		
Epoch 103/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2611 - acc: 0.9454 - val_loss: 0.4875 - val_acc: 0.8800		

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Epoch 104/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2596 - acc: 0.9456 - val_loss: 0.4890 - val_acc: 0.8810		
Epoch 105/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2613 - acc: 0.9464 - val_loss: 0.4845 - val_acc: 0.8818		
Epoch 106/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2595 - acc: 0.9462 - val_loss: 0.4844 - val_acc: 0.8824		
Epoch 107/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2596 - acc: 0.9467 - val_loss: 0.4880 - val_acc: 0.8803		
Epoch 108/200		
Learning rate: 1e-05		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2600 - acc: 0.9454 - val_loss: 0.4862 - val_acc: 0.8810		
Epoch 109/200		
Learning rate: 1e-05		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2572 - acc: 0.9474 - val_loss: 0.4834 - val_acc: 0.8824		
Epoch 110/200		
Learning rate: 1e-05		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2594 - acc: 0.9462 - val_loss: 0.4843 - val_acc: 0.8806		
Epoch 111/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2578 - acc: 0.9461 - val_loss: 0.4851 - val_acc: 0.8813		
Epoch 112/200		
Learning rate: 1e-05		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2566 - acc: 0.9466 - val_loss: 0.4827 - val_acc: 0.8813		
Epoch 113/200		
Learning rate: 1e-05		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2567 - acc: 0.9470 - val_loss: 0.4884 - val_acc: 0.8816		
Epoch 114/200		
Learning rate: 1e-05		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2570 - acc: 0.9470 - val_loss: 0.4905 - val_acc: 0.8815		
Epoch 115/200		
Learning rate: 1e-05		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2540 - acc: 0.9486 - val_loss: 0.4808 - val_acc: 0.8815		
Epoch 116/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2565 - acc: 0.9475 - val_loss: 0.4838 - val_acc: 0.8822		
Epoch 117/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2536 - acc: 0.9479 - val_loss: 0.4825 - val_acc: 0.8820		
Epoch 118/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2548 - acc: 0.9476 - val_loss: 0.4851 - val_acc: 0.8821		
Epoch 119/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2565 - acc: 0.9459 - val_loss: 0.4874 - val_acc: 0.8816		
Epoch 120/200		
Learning rate: 1e-05		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2553 - acc: 0.9473 - val_loss: 0.4905 - val_acc: 0.8815		
Epoch 121/200		

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Learning rate: 1e-05	1250/1250 [=====] - 15s 12ms/step - loss: 0.2545 - acc: 0.9490 - val_loss: 0.4856 - val_acc: 0.8831	
Epoch 122/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2525 - acc: 0.9484 - val_loss: 0.4854 - val_acc: 0.8821		
Epoch 123/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2559 - acc: 0.9474 - val_loss: 0.4860 - val_acc: 0.8817		
Epoch 124/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2537 - acc: 0.9487 - val_loss: 0.4848 - val_acc: 0.8820		
Epoch 125/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2496 - acc: 0.9505 - val_loss: 0.4835 - val_acc: 0.8825		
Epoch 126/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2512 - acc: 0.9496 - val_loss: 0.4829 - val_acc: 0.8831		
Epoch 127/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2540 - acc: 0.9476 - val_loss: 0.4844 - val_acc: 0.8821		
Epoch 128/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2550 - acc: 0.9481 - val_loss: 0.4836 - val_acc: 0.8826		
Epoch 129/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2531 - acc: 0.9485 - val_loss: 0.4849 - val_acc: 0.8823		
Epoch 130/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2491 - acc: 0.9499 - val_loss: 0.4848 - val_acc: 0.8831		
Epoch 131/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2537 - acc: 0.9471 - val_loss: 0.4830 - val_acc: 0.8831		
Epoch 132/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2544 - acc: 0.9479 - val_loss: 0.4866 - val_acc: 0.8819		
Epoch 133/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2532 - acc: 0.9480 - val_loss: 0.4846 - val_acc: 0.8824		
Epoch 134/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2529 - acc: 0.9486 - val_loss: 0.4832 - val_acc: 0.8838		
Epoch 135/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2505 - acc: 0.9489 - val_loss: 0.4866 - val_acc: 0.8822		
Epoch 136/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2537 - acc: 0.9477 - val_loss: 0.4864 - val_acc: 0.8823		
Epoch 137/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2525 - acc: 0.9485 - val_loss: 0.4859 - val_acc: 0.8831		
Epoch 138/200	Learning rate: 1e-06	

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1250/1250 [=====] - 15s 12ms/step - loss: 0.2545 - acc: 0.9476 - val_loss: 0.4841 - val_acc: 0.8838		
Epoch 139/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2512 - acc: 0.9479 - val_loss: 0.4852 - val_acc: 0.8824		
Epoch 140/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2525 - acc: 0.9482 - val_loss: 0.4861 - val_acc: 0.8828		
Epoch 141/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2531 - acc: 0.9470 - val_loss: 0.4830 - val_acc: 0.8846		
Epoch 142/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2523 - acc: 0.9482 - val_loss: 0.4825 - val_acc: 0.8836		
Epoch 143/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2530 - acc: 0.9491 - val_loss: 0.4840 - val_acc: 0.8833		
Epoch 144/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2531 - acc: 0.9482 - val_loss: 0.4843 - val_acc: 0.8833		
Epoch 145/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2511 - acc: 0.9480 - val_loss: 0.4869 - val_acc: 0.8834		
Epoch 146/200	Learning rate: 1e-06	
1250/1250 [=====] - 14s 12ms/step - loss: 0.2518 - acc: 0.9482 - val_loss: 0.4844 - val_acc: 0.8841		
Epoch 147/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2499 - acc: 0.9495 - val_loss: 0.4847 - val_acc: 0.8829		
Epoch 148/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2527 - acc: 0.9491 - val_loss: 0.4851 - val_acc: 0.8834		
Epoch 149/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2533 - acc: 0.9476 - val_loss: 0.4841 - val_acc: 0.8838		
Epoch 150/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2530 - acc: 0.9494 - val_loss: 0.4843 - val_acc: 0.8839		
Epoch 151/200	Learning rate: 1e-06	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2539 - acc: 0.9487 - val_loss: 0.4837 - val_acc: 0.8841		
Epoch 152/200	Learning rate: 5e-07	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2513 - acc: 0.9497 - val_loss: 0.4840 - val_acc: 0.8843		
Epoch 153/200	Learning rate: 5e-07	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2524 - acc: 0.9478 - val_loss: 0.4849 - val_acc: 0.8837		
Epoch 154/200	Learning rate: 5e-07	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2539 - acc: 0.9473 - val_loss: 0.4859 - val_acc: 0.8832		
Epoch 155/200	Learning rate: 5e-07	
1250/1250 [=====] - 15s 12ms/step - loss: 0.2531 - acc:		

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0.9483 - val_loss: 0.4825 - val_acc: 0.8837		
Epoch 156/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2524 - acc: 0.9490 - val_loss: 0.4851 - val_acc: 0.8833		
Epoch 157/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2533 - acc: 0.9485 - val_loss: 0.4852 - val_acc: 0.8837		
Epoch 158/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2519 - acc: 0.9492 - val_loss: 0.4832 - val_acc: 0.8840		
Epoch 159/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2537 - acc: 0.9474 - val_loss: 0.4840 - val_acc: 0.8839		
Epoch 160/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2485 - acc: 0.9510 - val_loss: 0.4844 - val_acc: 0.8841		
Epoch 161/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2545 - acc: 0.9474 - val_loss: 0.4842 - val_acc: 0.8832		
Epoch 162/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2537 - acc: 0.9484 - val_loss: 0.4836 - val_acc: 0.8842		
Epoch 163/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2513 - acc: 0.9497 - val_loss: 0.4846 - val_acc: 0.8837		
Epoch 164/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2538 - acc: 0.9471 - val_loss: 0.4867 - val_acc: 0.8830		
Epoch 165/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2528 - acc: 0.9481 - val_loss: 0.4822 - val_acc: 0.8843		
Epoch 166/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2497 - acc: 0.9499 - val_loss: 0.4837 - val_acc: 0.8834		
Epoch 167/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2550 - acc: 0.9479 - val_loss: 0.4833 - val_acc: 0.8839		
Epoch 168/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2531 - acc: 0.9480 - val_loss: 0.4842 - val_acc: 0.8834		
Epoch 169/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2520 - acc: 0.9484 - val_loss: 0.4841 - val_acc: 0.8835		
Epoch 170/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2521 - acc: 0.9481 - val_loss: 0.4840 - val_acc: 0.8838		
Epoch 171/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2512 - acc: 0.9494 - val_loss: 0.4843 - val_acc: 0.8837		
Epoch 172/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2531 - acc: 0.9481 - val_loss: 0.4850 - val_acc: 0.8835		

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Epoch 173/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2498 - acc: 0.9504 - val_loss: 0.4851 - val_acc: 0.8834		
Epoch 174/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2493 - acc: 0.9497 - val_loss: 0.4844 - val_acc: 0.8833		
Epoch 175/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2502 - acc: 0.9487 - val_loss: 0.4852 - val_acc: 0.8833		
Epoch 176/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2524 - acc: 0.9487 - val_loss: 0.4850 - val_acc: 0.8829		
Epoch 177/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2542 - acc: 0.9471 - val_loss: 0.4825 - val_acc: 0.8841		
Epoch 178/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2510 - acc: 0.9492 - val_loss: 0.4853 - val_acc: 0.8836		
Epoch 179/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2501 - acc: 0.9487 - val_loss: 0.4843 - val_acc: 0.8839		
Epoch 180/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2516 - acc: 0.9479 - val_loss: 0.4826 - val_acc: 0.8838		
Epoch 181/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2510 - acc: 0.9493 - val_loss: 0.4838 - val_acc: 0.8841		
Epoch 182/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2527 - acc: 0.9480 - val_loss: 0.4834 - val_acc: 0.8836		
Epoch 183/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2526 - acc: 0.9473 - val_loss: 0.4846 - val_acc: 0.8836		
Epoch 184/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2517 - acc: 0.9487 - val_loss: 0.4856 - val_acc: 0.8834		
Epoch 185/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2515 - acc: 0.9473 - val_loss: 0.4853 - val_acc: 0.8833		
Epoch 186/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2527 - acc: 0.9488 - val_loss: 0.4827 - val_acc: 0.8846		
Epoch 187/200		
Learning rate: 5e-07		
1250/1250 [=====] - 15s 12ms/step - loss: 0.2542 - acc: 0.9489 - val_loss: 0.4834 - val_acc: 0.8842		
Epoch 188/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2510 - acc: 0.9494 - val_loss: 0.4830 - val_acc: 0.8834		
Epoch 189/200		
Learning rate: 5e-07		
1250/1250 [=====] - 14s 12ms/step - loss: 0.2538 - acc: 0.9484 - val_loss: 0.4848 - val_acc: 0.8827		
Epoch 190/200		

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Learning rate: 5e-07 1250/1250 [=====] - 15s 12ms/step - loss: 0.2496 - acc: 0.9487 - val_loss: 0.4836 - val_acc: 0.8836 Epoch 191/200 Learning rate: 5e-07 1250/1250 [=====] - 15s 12ms/step - loss: 0.2496 - acc: 0.9500 - val_loss: 0.4843 - val_acc: 0.8836 Epoch 192/200 Learning rate: 5e-07 1250/1250 [=====] - 15s 12ms/step - loss: 0.2521 - acc: 0.9497 - val_loss: 0.4842 - val_acc: 0.8839 Epoch 193/200 Learning rate: 5e-07 1250/1250 [=====] - 15s 12ms/step - loss: 0.2526 - acc: 0.9476 - val_loss: 0.4828 - val_acc: 0.8841 Epoch 194/200 Learning rate: 5e-07 1250/1250 [=====] - 15s 12ms/step - loss: 0.2504 - acc: 0.9491 - val_loss: 0.4828 - val_acc: 0.8843 Epoch 195/200 Learning rate: 5e-07 1250/1250 [=====] - 14s 12ms/step - loss: 0.2496 - acc: 0.9490 - val_loss: 0.4835 - val_acc: 0.8841 Epoch 196/200 Learning rate: 5e-07 1250/1250 [=====] - 14s 12ms/step - loss: 0.2510 - acc: 0.9486 - val_loss: 0.4830 - val_acc: 0.8841 Epoch 197/200 Learning rate: 5e-07 1250/1250 [=====] - 15s 12ms/step - loss: 0.2524 - acc: 0.9494 - val_loss: 0.4837 - val_acc: 0.8842 Epoch 198/200 Learning rate: 5e-07 1250/1250 [=====] - 15s 12ms/step - loss: 0.2489 - acc: 0.9492 - val_loss: 0.4836 - val_acc: 0.8839 Epoch 199/200 Learning rate: 5e-07 1250/1250 [=====] - 15s 12ms/step - loss: 0.2506 - acc: 0.9485 - val_loss: 0.4855 - val_acc: 0.8829 Epoch 200/200 Learning rate: 5e-07 1250/1250 [=====] - 14s 12ms/step - loss: 0.2501 - acc: 0.9488 - val_loss: 0.4845 - val_acc: 0.8831 10000/10000 [=====] - 1s 105us/step Test loss: 0.5143441814422608 Test accuracy: 0.8784		