**Using TensorFlow backend.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Printing Text Data**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**0 Print They should pay all the back all the mon...**

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**4 Email HEALTHCARE REFORM TO MAKE AMERICA GREAT ...**

**Name: text, dtype: object**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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**12998 of course - how else would they disceminate te...**

**Name: text, Length: 12999, dtype: object>**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Printing Distinct Labels**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**{'satire', 'state', 'bs', 'conspiracy', 'bias', 'hate', 'fake', 'junksci'}**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Loading Words Embedding...**

**--------------------------------------------------------------------------------**

**glove.6B/glove.6B.100d.txt**

**Found 400000 word vectors.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**{'satire', 'state', 'bs', 'conspiracy', 'bias', 'hate', 'fake', 'junksci'}**

**0 0**

**1 0**

**2 0**

**3 0**

**4 0**

**5 0**

**6 0**

**7 0**

**8 0**

**9 0**

**10 0**

**11 0**

**12 0**

**13 0**

**14 0**

**15 0**

**16 0**

**17 0**

**18 0**

**19 0**

**20 0**

**21 0**

**22 0**

**23 0**

**24 0**

**25 0**

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**27 0**

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**12990 0**

**12991 0**

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**12996 0**

**12997 0**

**12998 0**

**Name: type, Length: 12999, dtype: object**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Tokenizer Fittig on Training dataset....**

**--------------------------------------------------------------------------------**

**Found 168637 unique tokens in the training dataset.**

**--------------------------------------------------------------------------------**

**Printing Length of dataset**

**10399**

**--------------------------------------------------------------------------------**

**--------------------------------------------------------------------------------**

**Shape of data tensor: (10399, 500)**

**Shape of label tensor: (10399,)**

**Tokenizing performed successfully on dataset.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Tokenizer Fittig on Test dataset........**

**--------------------------------------------------------------------------------**

**Found 79221 unique tokens in the training dataset.**

**--------------------------------------------------------------------------------**

**Printing Length of dataset**

**2600**

**--------------------------------------------------------------------------------**

**--------------------------------------------------------------------------------**

**Shape of data tensor: (2600, 500)**

**Shape of label tensor: (2600,)**

**Tokenizing performed successfully on dataset.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Printing the proposed model summary........**

**--------------------------------------------------------------------------------**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Layer (type) Output Shape Param #**

**=================================================================**

**embedding\_1 (Embedding) (None, 500, 100) 5000000**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**lstm\_1 (LSTM) (None, 500, 500) 1202000**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**lstm\_2 (LSTM) (None, 500) 2002000**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**dropout\_1 (Dropout) (None, 500) 0**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**dense\_1 (Dense) (None, 2500) 1252500**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**dense\_2 (Dense) (None, 1) 2501**

**=================================================================**

**Total params: 9,459,001**

**Trainable params: 9,459,001**

**Non-trainable params: 0**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Compiling the proposed model summary........**

**--------------------------------------------------------------------------------**

**Printing the proposed model JSON FILE........**

**--------------------------------------------------------------------------------**

**{"class\_name": "Sequential", "config": {"name": "sequential\_1", "layers": [{"class\_name": "Embedding", "config": {"name": "embedding\_1", "trainable": false, "batch\_input\_shape": [null, 500], "dtype": "float32", "input\_dim": 50000, "output\_dim": 100, "embeddings\_initializer": {"class\_name": "RandomUniform", "config": {"minval": -0.05, "maxval": 0.05, "seed": null}}, "embeddings\_regularizer": null, "activity\_regularizer": null, "embeddings\_constraint": null, "mask\_zero": false, "input\_length": 500}}, {"class\_name": "LSTM", "config": {"name": "lstm\_1", "trainable": true, "return\_sequences": true, "return\_state": false, "go\_backwards": false, "stateful": false, "unroll": false, "units": 500, "activation": "tanh", "recurrent\_activation": "hard\_sigmoid", "use\_bias": true, "kernel\_initializer": {"class\_name": "VarianceScaling", "config": {"scale": 1.0, "mode": "fan\_avg", "distribution": "uniform", "seed": null}}, "recurrent\_initializer": {"class\_name": "Orthogonal", "config": {"gain": 1.0, "seed": null}}, "bias\_initializer": {"class\_name": "Zeros", "config": {}}, "unit\_forget\_bias": true, "kernel\_regularizer": null, "recurrent\_regularizer": null, "bias\_regularizer": null, "activity\_regularizer": null, "kernel\_constraint": null, "recurrent\_constraint": null, "bias\_constraint": null, "dropout": 0.0, "recurrent\_dropout": 0.0, "implementation": 1}}, {"class\_name": "LSTM", "config": {"name": "lstm\_2", "trainable": true, "return\_sequences": false, "return\_state": false, "go\_backwards": false, "stateful": false, "unroll": false, "units": 500, "activation": "tanh", "recurrent\_activation": "hard\_sigmoid", "use\_bias": true, "kernel\_initializer": {"class\_name": "VarianceScaling", "config": {"scale": 1.0, "mode": "fan\_avg", "distribution": "uniform", "seed": null}}, "recurrent\_initializer": {"class\_name": "Orthogonal", "config": {"gain": 1.0, "seed": null}}, "bias\_initializer": {"class\_name": "Zeros", "config": {}}, "unit\_forget\_bias": true, "kernel\_regularizer": null, "recurrent\_regularizer": null, "bias\_regularizer": null, "activity\_regularizer": null, "kernel\_constraint": null, "recurrent\_constraint": null, "bias\_constraint": null, "dropout": 0.0, "recurrent\_dropout": 0.0, "implementation": 1}}, {"class\_name": "Dropout", "config": {"name": "dropout\_1", "trainable": true, "rate": 0.5, "noise\_shape": null, "seed": null}}, {"class\_name": "Dense", "config": {"name": "dense\_1", "trainable": true, "units": 2500, "activation": "relu", "use\_bias": true, "kernel\_initializer": {"class\_name": "VarianceScaling", "config": {"scale": 1.0, "mode": "fan\_avg", "distribution": "uniform", "seed": null}}, "bias\_initializer": {"class\_name": "Zeros", "config": {}}, "kernel\_regularizer": null, "bias\_regularizer": null, "activity\_regularizer": null, "kernel\_constraint": null, "bias\_constraint": null}}, {"class\_name": "Dense", "config": {"name": "dense\_2", "trainable": true, "units": 1, "activation": "sigmoid", "use\_bias": true, "kernel\_initializer": {"class\_name": "VarianceScaling", "config": {"scale": 1.0, "mode": "fan\_avg", "distribution": "uniform", "seed": null}}, "bias\_initializer": {"class\_name": "Zeros", "config": {}}, "kernel\_regularizer": null, "bias\_regularizer": null, "activity\_regularizer": null, "kernel\_constraint": null, "bias\_constraint": null}}]}, "keras\_version": "2.2.4", "backend": "tensorflow"}**

**--------------------------------------------------------------------------------**

**Train on 10399 samples, validate on 2600 samples**

**Epoch 1/6**

**100/10399 [..............................] - ETA: 57:22 - loss: 0.6912 - acc: 0.5600**

**200/10399 [..............................] - ETA: 1:02:39 - loss: 0.4838 - acc: 0.7550**

**300/10399 [..............................] - ETA: 1:04:28 - loss: 0.5996 - acc: 0.6200**

**400/10399 [>.............................] - ETA: 1:03:48 - loss: 0.6171 - acc: 0.6975**

**500/10399 [>.............................] - ETA: 1:06:24 - loss: 0.6441 - acc: 0.6380**

**600/10399 [>.............................] - ETA: 1:08:30 - loss: 0.5712 - acc: 0.6917**

**700/10399 [=>............................] - ETA: 1:10:28 - loss: 0.5291 - acc: 0.7243**

**800/10399 [=>............................] - ETA: 1:11:42 - loss: 0.4742 - acc: 0.7587**

**900/10399 [=>............................] - ETA: 1:11:25 - loss: 0.5398 - acc: 0.7744**

**1000/10399 [=>............................] - ETA: 1:10:37 - loss: 0.5158 - acc: 0.7920**

**1100/10399 [==>...........................] - ETA: 1:10:48 - loss: 0.4858 - acc: 0.8073**

**1200/10399 [==>...........................] - ETA: 1:11:18 - loss: 0.4750 - acc: 0.8158**

**1300/10399 [==>...........................] - ETA: 1:11:43 - loss: 0.4558 - acc: 0.8269**

**1400/10399 [===>..........................] - ETA: 1:11:47 - loss: 0.4407 - acc: 0.8350**

**1500/10399 [===>..........................] - ETA: 1:12:05 - loss: 0.4237 - acc: 0.8433**

**1600/10399 [===>..........................] - ETA: 1:12:27 - loss: 0.4071 - acc: 0.8512**

**1700/10399 [===>..........................] - ETA: 1:12:34 - loss: 0.3873 - acc: 0.8594**

**1800/10399 [====>.........................] - ETA: 1:12:27 - loss: 0.3722 - acc: 0.8661**

**1900/10399 [====>.........................] - ETA: 1:12:27 - loss: 0.3665 - acc: 0.8700**

**2000/10399 [====>.........................] - ETA: 1:12:21 - loss: 0.3584 - acc: 0.8740**

**2100/10399 [=====>........................] - ETA: 1:12:06 - loss: 0.3640 - acc: 0.8738**

**2200/10399 [=====>........................] - ETA: 1:11:41 - loss: 0.3634 - acc: 0.8768**

**2300/10399 [=====>........................] - ETA: 1:11:26 - loss: 0.3582 - acc: 0.8796**

**2400/10399 [=====>........................] - ETA: 1:11:08 - loss: 0.3542 - acc: 0.8817**

**2500/10399 [======>.......................] - ETA: 1:10:37 - loss: 0.3493 - acc: 0.8840**

**2600/10399 [======>.......................] - ETA: 1:10:10 - loss: 0.3405 - acc: 0.8877**

**2700/10399 [======>.......................] - ETA: 1:09:29 - loss: 0.3412 - acc: 0.8889**

**2800/10399 [=======>......................] - ETA: 1:09:10 - loss: 0.3379 - acc: 0.8911**

**2900/10399 [=======>......................] - ETA: 1:08:45 - loss: 0.3323 - acc: 0.8931**

**3000/10399 [=======>......................] - ETA: 1:08:03 - loss: 0.3290 - acc: 0.8947**

**3100/10399 [=======>......................] - ETA: 1:07:08 - loss: 0.3250 - acc: 0.8961**

**3200/10399 [========>.....................] - ETA: 1:06:23 - loss: 0.3234 - acc: 0.8972**

**3300/10399 [========>.....................] - ETA: 1:05:46 - loss: 0.3190 - acc: 0.8991**

**3400/10399 [========>.....................] - ETA: 1:05:11 - loss: 0.3134 - acc: 0.9012**

**3500/10399 [=========>....................] - ETA: 1:04:22 - loss: 0.3095 - acc: 0.9029**

**3600/10399 [=========>....................] - ETA: 1:03:11 - loss: 0.3063 - acc: 0.9042**

**3700/10399 [=========>....................] - ETA: 1:02:06 - loss: 0.3024 - acc: 0.9057**

**3800/10399 [=========>....................] - ETA: 1:00:49 - loss: 0.3021 - acc: 0.9061**

**3900/10399 [==========>...................] - ETA: 59:31 - loss: 0.2990 - acc: 0.9082**

**4000/10399 [==========>...................] - ETA: 58:15 - loss: 0.3039 - acc: 0.9082**

**4100/10399 [==========>...................] - ETA: 57:00 - loss: 0.3012 - acc: 0.9095**

**4200/10399 [===========>..................] - ETA: 55:49 - loss: 0.3007 - acc: 0.9102**

**4300/10399 [===========>..................] - ETA: 54:38 - loss: 0.2977 - acc: 0.9116**

**4400/10399 [===========>..................] - ETA: 53:35 - loss: 0.2960 - acc: 0.9125**

**4500/10399 [===========>..................] - ETA: 52:33 - loss: 0.2946 - acc: 0.9131**

**4600/10399 [============>.................] - ETA: 51:22 - loss: 0.2921 - acc: 0.9141**

**4700/10399 [============>.................] - ETA: 50:07 - loss: 0.2947 - acc: 0.9134**

**4800/10399 [============>.................] - ETA: 48:51 - loss: 0.2940 - acc: 0.9142**

**4900/10399 [=============>................] - ETA: 47:41 - loss: 0.2913 - acc: 0.9151**

**5000/10399 [=============>................] - ETA: 46:32 - loss: 0.2894 - acc: 0.9158**

**5100/10399 [=============>................] - ETA: 45:22 - loss: 0.2891 - acc: 0.9159**

**5200/10399 [==============>...............] - ETA: 44:16 - loss: 0.2891 - acc: 0.9162**

**5300/10399 [==============>...............] - ETA: 43:10 - loss: 0.2876 - acc: 0.9170**

**5400/10399 [==============>...............] - ETA: 42:06 - loss: 0.2869 - acc: 0.9174**

**5500/10399 [==============>...............] - ETA: 40:58 - loss: 0.2860 - acc: 0.9176**

**5600/10399 [===============>..............] - ETA: 39:57 - loss: 0.2843 - acc: 0.9182**

**5700/10399 [===============>..............] - ETA: 38:55 - loss: 0.2812 - acc: 0.9193**

**5800/10399 [===============>..............] - ETA: 37:55 - loss: 0.2779 - acc: 0.9203**

**5900/10399 [================>.............] - ETA: 36:51 - loss: 0.2754 - acc: 0.9212**

**6000/10399 [================>.............] - ETA: 35:48 - loss: 0.2734 - acc: 0.9218**

**6100/10399 [================>.............] - ETA: 34:47 - loss: 0.2714 - acc: 0.9225**

**6200/10399 [================>.............] - ETA: 33:46 - loss: 0.2690 - acc: 0.9232**

**6300/10399 [=================>............] - ETA: 32:47 - loss: 0.2686 - acc: 0.9237**

**6400/10399 [=================>............] - ETA: 31:48 - loss: 0.2686 - acc: 0.9237**

**6500/10399 [=================>............] - ETA: 30:50 - loss: 0.2670 - acc: 0.9242**

**6600/10399 [==================>...........] - ETA: 29:53 - loss: 0.2655 - acc: 0.9247**

**6700/10399 [==================>...........] - ETA: 28:57 - loss: 0.2672 - acc: 0.9243**

**6800/10399 [==================>...........] - ETA: 28:02 - loss: 0.2679 - acc: 0.9247**

**6900/10399 [==================>...........] - ETA: 27:06 - loss: 0.2672 - acc: 0.9251**

**7000/10399 [===================>..........] - ETA: 26:13 - loss: 0.2666 - acc: 0.9253**

**7100/10399 [===================>..........] - ETA: 25:19 - loss: 0.2667 - acc: 0.9252**

**7200/10399 [===================>..........] - ETA: 24:27 - loss: 0.2664 - acc: 0.9254**

**7300/10399 [====================>.........] - ETA: 23:34 - loss: 0.2647 - acc: 0.9260**

**7400/10399 [====================>.........] - ETA: 22:42 - loss: 0.2638 - acc: 0.9264**

**7500/10399 [====================>.........] - ETA: 21:51 - loss: 0.2626 - acc: 0.9268**

**7600/10399 [====================>.........] - ETA: 21:00 - loss: 0.2624 - acc: 0.9268**

**7700/10399 [=====================>........] - ETA: 20:10 - loss: 0.2612 - acc: 0.9273**

**7800/10399 [=====================>........] - ETA: 19:20 - loss: 0.2608 - acc: 0.9273**

**7900/10399 [=====================>........] - ETA: 18:31 - loss: 0.2592 - acc: 0.9278**

**8000/10399 [======================>.......] - ETA: 17:42 - loss: 0.2589 - acc: 0.9280**

**8100/10399 [======================>.......] - ETA: 16:54 - loss: 0.2575 - acc: 0.9285**

**8200/10399 [======================>.......] - ETA: 16:06 - loss: 0.2584 - acc: 0.9284**

**8300/10399 [======================>.......] - ETA: 15:19 - loss: 0.2577 - acc: 0.9287**

**8400/10399 [=======================>......] - ETA: 14:32 - loss: 0.2565 - acc: 0.9290**

**8500/10399 [=======================>......] - ETA: 13:45 - loss: 0.2574 - acc: 0.9288**

**8600/10399 [=======================>......] - ETA: 12:59 - loss: 0.2584 - acc: 0.9285**

**8700/10399 [========================>.....] - ETA: 12:13 - loss: 0.2575 - acc: 0.9289**

**8800/10399 [========================>.....] - ETA: 11:27 - loss: 0.2582 - acc: 0.9287**

**8900/10399 [========================>.....] - ETA: 10:43 - loss: 0.2581 - acc: 0.9287**

**9000/10399 [========================>.....] - ETA: 9:58 - loss: 0.2582 - acc: 0.9286**

**9100/10399 [=========================>....] - ETA: 9:13 - loss: 0.2569 - acc: 0.9290**

**9200/10399 [=========================>....] - ETA: 8:29 - loss: 0.2565 - acc: 0.9291**

**9300/10399 [=========================>....] - ETA: 7:45 - loss: 0.2564 - acc: 0.9291**

**9400/10399 [==========================>...] - ETA: 7:01 - loss: 0.2553 - acc: 0.9296**

**9500/10399 [==========================>...] - ETA: 6:18 - loss: 0.2533 - acc: 0.9302**

**9600/10399 [==========================>...] - ETA: 5:35 - loss: 0.2542 - acc: 0.9301**

**9700/10399 [==========================>...] - ETA: 4:52 - loss: 0.2538 - acc: 0.9303**

**9800/10399 [===========================>..] - ETA: 4:10 - loss: 0.2535 - acc: 0.9303**

**9900/10399 [===========================>..] - ETA: 3:27 - loss: 0.2531 - acc: 0.9303**

**10000/10399 [===========================>..] - ETA: 2:45 - loss: 0.2524 - acc: 0.9305**

**10100/10399 [============================>.] - ETA: 2:03 - loss: 0.2515 - acc: 0.9308**

**10200/10399 [============================>.] - ETA: 1:22 - loss: 0.2519 - acc: 0.9307**

**10300/10399 [============================>.] - ETA: 40s - loss: 0.2515 - acc: 0.9310**

**10399/10399 [==============================] - 4535s 436ms/step - loss: 0.2497 - acc: 0.9315 - val\_loss: 0.2163 - val\_acc: 0.9535**

**Epoch 2/6**

**100/10399 [..............................] - ETA: 52:47 - loss: 0.1461 - acc: 0.9600**

**200/10399 [..............................] - ETA: 51:58 - loss: 0.0834 - acc: 0.9800**

**300/10399 [..............................] - ETA: 51:22 - loss: 0.1796 - acc: 0.9667**

**400/10399 [>.............................] - ETA: 50:33 - loss: 0.1874 - acc: 0.9625**

**500/10399 [>.............................] - ETA: 50:44 - loss: 0.2067 - acc: 0.9520**

**600/10399 [>.............................] - ETA: 50:53 - loss: 0.2487 - acc: 0.9417**

**700/10399 [=>............................] - ETA: 50:09 - loss: 0.2580 - acc: 0.9314**

**800/10399 [=>............................] - ETA: 49:25 - loss: 0.2613 - acc: 0.9350**

**900/10399 [=>............................] - ETA: 48:37 - loss: 0.3184 - acc: 0.8933**

**1000/10399 [=>............................] - ETA: 47:52 - loss: 0.3299 - acc: 0.8990**

**1100/10399 [==>...........................] - ETA: 47:20 - loss: 0.3126 - acc: 0.9055**

**1200/10399 [==>...........................] - ETA: 46:52 - loss: 0.3190 - acc: 0.9050**

**1300/10399 [==>...........................] - ETA: 46:22 - loss: 0.3107 - acc: 0.9108**

**1400/10399 [===>..........................] - ETA: 45:46 - loss: 0.3181 - acc: 0.9100**

**1500/10399 [===>..........................] - ETA: 45:24 - loss: 0.3093 - acc: 0.9140**

**1600/10399 [===>..........................] - ETA: 44:54 - loss: 0.3109 - acc: 0.9144**

**1700/10399 [===>..........................] - ETA: 44:28 - loss: 0.3057 - acc: 0.9159**

**1800/10399 [====>.........................] - ETA: 43:58 - loss: 0.3010 - acc: 0.9178**

**1900/10399 [====>.........................] - ETA: 43:22 - loss: 0.2999 - acc: 0.9184**

**2000/10399 [====>.........................] - ETA: 43:01 - loss: 0.2923 - acc: 0.9210**

**2100/10399 [=====>........................] - ETA: 42:31 - loss: 0.2879 - acc: 0.9224**

**2200/10399 [=====>........................] - ETA: 42:02 - loss: 0.2877 - acc: 0.9227**

**2300/10399 [=====>........................] - ETA: 41:31 - loss: 0.2878 - acc: 0.9226**

**2400/10399 [=====>........................] - ETA: 41:00 - loss: 0.2885 - acc: 0.9221**

**2500/10399 [======>.......................] - ETA: 40:29 - loss: 0.2870 - acc: 0.9224**

**2600/10399 [======>.......................] - ETA: 39:58 - loss: 0.2849 - acc: 0.9231**

**2700/10399 [======>.......................] - ETA: 39:35 - loss: 0.2807 - acc: 0.9244**

**2800/10399 [=======>......................] - ETA: 39:04 - loss: 0.2770 - acc: 0.9257**

**2900/10399 [=======>......................] - ETA: 38:33 - loss: 0.2781 - acc: 0.9255**

**3000/10399 [=======>......................] - ETA: 38:18 - loss: 0.2771 - acc: 0.9260**

**3100/10399 [=======>......................] - ETA: 37:36 - loss: 0.2732 - acc: 0.9271**

**3200/10399 [========>.....................] - ETA: 37:05 - loss: 0.2709 - acc: 0.9278**

**3300/10399 [========>.....................] - ETA: 36:33 - loss: 0.2669 - acc: 0.9291**

**3400/10399 [========>.....................] - ETA: 36:01 - loss: 0.2716 - acc: 0.9282**

**3500/10399 [=========>....................] - ETA: 35:28 - loss: 0.2717 - acc: 0.9286**

**3600/10399 [=========>....................] - ETA: 34:53 - loss: 0.2680 - acc: 0.9297**

**3700/10399 [=========>....................] - ETA: 34:22 - loss: 0.2654 - acc: 0.9305**

**3800/10399 [=========>....................] - ETA: 33:50 - loss: 0.2614 - acc: 0.9318**

**3900/10399 [==========>...................] - ETA: 33:19 - loss: 0.2615 - acc: 0.9321**

**4000/10399 [==========>...................] - ETA: 32:48 - loss: 0.2609 - acc: 0.9323**

**4100/10399 [==========>...................] - ETA: 32:18 - loss: 0.2601 - acc: 0.9324**

**4200/10399 [===========>..................] - ETA: 31:47 - loss: 0.2567 - acc: 0.9336**

**4300/10399 [===========>..................] - ETA: 31:17 - loss: 0.2550 - acc: 0.9342**

**4400/10399 [===========>..................] - ETA: 30:46 - loss: 0.2540 - acc: 0.9345**

**4500/10399 [===========>..................] - ETA: 30:19 - loss: 0.2534 - acc: 0.9347**

**4600/10399 [============>.................] - ETA: 29:48 - loss: 0.2535 - acc: 0.9346**

**4700/10399 [============>.................] - ETA: 29:21 - loss: 0.2524 - acc: 0.9351**

**4800/10399 [============>.................] - ETA: 28:53 - loss: 0.2516 - acc: 0.9354**

**4900/10399 [=============>................] - ETA: 28:26 - loss: 0.2495 - acc: 0.9361**

**5000/10399 [=============>................] - ETA: 27:59 - loss: 0.2496 - acc: 0.9362**

**5100/10399 [=============>................] - ETA: 27:34 - loss: 0.2492 - acc: 0.9363**

**5200/10399 [==============>...............] - ETA: 27:09 - loss: 0.2496 - acc: 0.9362**

**5300/10399 [==============>...............] - ETA: 26:43 - loss: 0.2493 - acc: 0.9362**

**5400/10399 [==============>...............] - ETA: 26:16 - loss: 0.2492 - acc: 0.9363**

**5500/10399 [==============>...............] - ETA: 25:50 - loss: 0.2492 - acc: 0.9362**

**5600/10399 [===============>..............] - ETA: 25:24 - loss: 0.2473 - acc: 0.9368**

**5700/10399 [===============>..............] - ETA: 24:57 - loss: 0.2473 - acc: 0.9368**

**5800/10399 [===============>..............] - ETA: 24:32 - loss: 0.2469 - acc: 0.9369**

**5900/10399 [================>.............] - ETA: 24:11 - loss: 0.2484 - acc: 0.9364**

**6000/10399 [================>.............] - ETA: 23:47 - loss: 0.2483 - acc: 0.9367**

**6100/10399 [================>.............] - ETA: 23:25 - loss: 0.2485 - acc: 0.9366**

**6200/10399 [================>.............] - ETA: 23:03 - loss: 0.2473 - acc: 0.9369**

**6300/10399 [=================>............] - ETA: 22:40 - loss: 0.2457 - acc: 0.9375**

**6400/10399 [=================>............] - ETA: 22:25 - loss: 0.2450 - acc: 0.9377**

**6500/10399 [=================>............] - ETA: 22:06 - loss: 0.2442 - acc: 0.9378**

**6600/10399 [==================>...........] - ETA: 21:47 - loss: 0.2458 - acc: 0.9373**

**6700/10399 [==================>...........] - ETA: 21:25 - loss: 0.2476 - acc: 0.9364**

**6800/10399 [==================>...........] - ETA: 21:07 - loss: 0.2472 - acc: 0.9366**

**6900/10399 [==================>...........] - ETA: 20:42 - loss: 0.2496 - acc: 0.9358**

**7000/10399 [===================>..........] - ETA: 20:17 - loss: 0.2494 - acc: 0.9361**

**7100/10399 [===================>..........] - ETA: 19:50 - loss: 0.2482 - acc: 0.9365**

**7200/10399 [===================>..........] - ETA: 19:27 - loss: 0.2489 - acc: 0.9362**

**7300/10399 [====================>.........] - ETA: 18:57 - loss: 0.2484 - acc: 0.9364**

**7400/10399 [====================>.........] - ETA: 18:27 - loss: 0.2474 - acc: 0.9368**

**7500/10399 [====================>.........] - ETA: 17:55 - loss: 0.2473 - acc: 0.9368**

**7600/10399 [====================>.........] - ETA: 17:24 - loss: 0.2467 - acc: 0.9370**

**7700/10399 [=====================>........] - ETA: 16:51 - loss: 0.2446 - acc: 0.9377**

**7800/10399 [=====================>........] - ETA: 16:19 - loss: 0.2444 - acc: 0.9378**

**7900/10399 [=====================>........] - ETA: 15:48 - loss: 0.2442 - acc: 0.9378**

**8000/10399 [======================>.......] - ETA: 15:14 - loss: 0.2447 - acc: 0.9376**

**8100/10399 [======================>.......] - ETA: 14:41 - loss: 0.2438 - acc: 0.9380**

**8200/10399 [======================>.......] - ETA: 14:06 - loss: 0.2430 - acc: 0.9383**

**8300/10399 [======================>.......] - ETA: 13:32 - loss: 0.2420 - acc: 0.9386**

**8400/10399 [=======================>......] - ETA: 12:58 - loss: 0.2423 - acc: 0.9385**

**8500/10399 [=======================>......] - ETA: 12:23 - loss: 0.2408 - acc: 0.9391**

**8600/10399 [=======================>......] - ETA: 11:46 - loss: 0.2421 - acc: 0.9388**

**8700/10399 [========================>.....] - ETA: 11:09 - loss: 0.2428 - acc: 0.9385**

**8800/10399 [========================>.....] - ETA: 10:32 - loss: 0.2420 - acc: 0.9389**

**8900/10399 [========================>.....] - ETA: 9:54 - loss: 0.2408 - acc: 0.9392**

**9000/10399 [========================>.....] - ETA: 9:15 - loss: 0.2402 - acc: 0.9394**

**9100/10399 [=========================>....] - ETA: 8:38 - loss: 0.2394 - acc: 0.9397**

**9200/10399 [=========================>....] - ETA: 8:00 - loss: 0.2400 - acc: 0.9395**

**9300/10399 [=========================>....] - ETA: 7:23 - loss: 0.2400 - acc: 0.9395**

**9400/10399 [==========================>...] - ETA: 6:45 - loss: 0.2407 - acc: 0.9391**

**9500/10399 [==========================>...] - ETA: 6:07 - loss: 0.2402 - acc: 0.9394**

**9600/10399 [==========================>...] - ETA: 5:28 - loss: 0.2398 - acc: 0.9395**

**9700/10399 [==========================>...] - ETA: 4:47 - loss: 0.2396 - acc: 0.9395**

**9800/10399 [===========================>..] - ETA: 4:07 - loss: 0.2398 - acc: 0.9394**

**9900/10399 [===========================>..] - ETA: 3:26 - loss: 0.2402 - acc: 0.9392**

**10000/10399 [===========================>..] - ETA: 2:45 - loss: 0.2398 - acc: 0.9393**

**10100/10399 [============================>.] - ETA: 2:04 - loss: 0.2388 - acc: 0.9396**

**10200/10399 [============================>.] - ETA: 1:23 - loss: 0.2395 - acc: 0.9394**

**10300/10399 [============================>.] - ETA: 41s - loss: 0.2397 - acc: 0.9394**

**10399/10399 [==============================] - 4916s 473ms/step - loss: 0.2397 - acc: 0.9394 - val\_loss: 0.2033 - val\_acc: 0.9542**

**Epoch 3/6**

**100/10399 [..............................] - ETA: 1:44:34 - loss: 0.2019 - acc: 0.9500**

**200/10399 [..............................] - ETA: 1:42:32 - loss: 0.1506 - acc: 0.9650**

**300/10399 [..............................] - ETA: 1:36:04 - loss: 0.1289 - acc: 0.9700**

**400/10399 [>.............................] - ETA: 1:32:41 - loss: 0.2066 - acc: 0.9525**

**500/10399 [>.............................] - ETA: 1:31:44 - loss: 0.2181 - acc: 0.9480**

**600/10399 [>.............................] - ETA: 1:30:52 - loss: 0.2194 - acc: 0.9483**

**700/10399 [=>............................] - ETA: 1:30:27 - loss: 0.2074 - acc: 0.9514**

**800/10399 [=>............................] - ETA: 1:30:27 - loss: 0.2092 - acc: 0.9513**

**900/10399 [=>............................] - ETA: 1:30:20 - loss: 0.2239 - acc: 0.9456**

**1000/10399 [=>............................] - ETA: 1:29:04 - loss: 0.2195 - acc: 0.9480**

**1100/10399 [==>...........................] - ETA: 1:28:03 - loss: 0.2207 - acc: 0.9473**

**1200/10399 [==>...........................] - ETA: 1:27:02 - loss: 0.2223 - acc: 0.9467**

**1300/10399 [==>...........................] - ETA: 1:26:16 - loss: 0.2140 - acc: 0.9492**

**1400/10399 [===>..........................] - ETA: 1:25:12 - loss: 0.2204 - acc: 0.9479**

**1500/10399 [===>..........................] - ETA: 1:23:57 - loss: 0.2189 - acc: 0.9480**

**1600/10399 [===>..........................] - ETA: 1:23:22 - loss: 0.2215 - acc: 0.9469**

**1700/10399 [===>..........................] - ETA: 1:22:55 - loss: 0.2219 - acc: 0.9465**

**1800/10399 [====>.........................] - ETA: 1:22:21 - loss: 0.2176 - acc: 0.9478**

**1900/10399 [====>.........................] - ETA: 1:21:32 - loss: 0.2169 - acc: 0.9479**

**2000/10399 [====>.........................] - ETA: 1:20:50 - loss: 0.2250 - acc: 0.9450**

**2100/10399 [=====>........................] - ETA: 1:19:26 - loss: 0.2278 - acc: 0.9438**

**2200/10399 [=====>........................] - ETA: 1:18:28 - loss: 0.2246 - acc: 0.9450**

**2300/10399 [=====>........................] - ETA: 1:17:08 - loss: 0.2242 - acc: 0.9452**

**2400/10399 [=====>........................] - ETA: 1:16:08 - loss: 0.2261 - acc: 0.9446**

**2500/10399 [======>.......................] - ETA: 1:15:15 - loss: 0.2286 - acc: 0.9436**

**2600/10399 [======>.......................] - ETA: 1:14:13 - loss: 0.2257 - acc: 0.9446**

**2700/10399 [======>.......................] - ETA: 1:12:52 - loss: 0.2282 - acc: 0.9441**

**2800/10399 [=======>......................] - ETA: 1:11:44 - loss: 0.2286 - acc: 0.9439**

**2900/10399 [=======>......................] - ETA: 1:10:42 - loss: 0.2248 - acc: 0.9452**

**3000/10399 [=======>......................] - ETA: 1:09:39 - loss: 0.2283 - acc: 0.9443**

**3100/10399 [=======>......................] - ETA: 1:08:46 - loss: 0.2285 - acc: 0.9442**

**3200/10399 [========>.....................] - ETA: 1:07:51 - loss: 0.2281 - acc: 0.9441**

**3300/10399 [========>.....................] - ETA: 1:06:59 - loss: 0.2279 - acc: 0.9439**

**3400/10399 [========>.....................] - ETA: 1:05:57 - loss: 0.2270 - acc: 0.9441**

**3500/10399 [=========>....................] - ETA: 1:05:08 - loss: 0.2251 - acc: 0.9446**

**3600/10399 [=========>....................] - ETA: 1:04:11 - loss: 0.2249 - acc: 0.9447**

**3700/10399 [=========>....................] - ETA: 1:03:21 - loss: 0.2252 - acc: 0.9446**

**3800/10399 [=========>....................] - ETA: 1:02:16 - loss: 0.2244 - acc: 0.9447**

**3900/10399 [==========>...................] - ETA: 1:01:21 - loss: 0.2222 - acc: 0.9454**

**4000/10399 [==========>...................] - ETA: 1:00:18 - loss: 0.2237 - acc: 0.9450**

**4100/10399 [==========>...................] - ETA: 59:20 - loss: 0.2244 - acc: 0.9446**

**4200/10399 [===========>..................] - ETA: 58:21 - loss: 0.2240 - acc: 0.9448**

**4300/10399 [===========>..................] - ETA: 57:22 - loss: 0.2225 - acc: 0.9451**

**4400/10399 [===========>..................] - ETA: 56:15 - loss: 0.2236 - acc: 0.9448**

**4500/10399 [===========>..................] - ETA: 54:58 - loss: 0.2223 - acc: 0.9453**

**4600/10399 [============>.................] - ETA: 54:02 - loss: 0.2213 - acc: 0.9457**

**4700/10399 [============>.................] - ETA: 53:05 - loss: 0.2213 - acc: 0.9455**

**4800/10399 [============>.................] - ETA: 52:00 - loss: 0.2229 - acc: 0.9450**

**4900/10399 [=============>................] - ETA: 50:55 - loss: 0.2229 - acc: 0.9451**

**5000/10399 [=============>................] - ETA: 49:54 - loss: 0.2228 - acc: 0.9450**

**5100/10399 [=============>................] - ETA: 48:54 - loss: 0.2207 - acc: 0.9457**

**5200/10399 [==============>...............] - ETA: 48:01 - loss: 0.2246 - acc: 0.9446**

**5300/10399 [==============>...............] - ETA: 47:11 - loss: 0.2236 - acc: 0.9453**

**5400/10399 [==============>...............] - ETA: 46:18 - loss: 0.2248 - acc: 0.9448**

**5500/10399 [==============>...............] - ETA: 45:20 - loss: 0.2264 - acc: 0.9442**

**5600/10399 [===============>..............] - ETA: 44:25 - loss: 0.2259 - acc: 0.9445**

**5700/10399 [===============>..............] - ETA: 43:30 - loss: 0.2263 - acc: 0.9442**

**5800/10399 [===============>..............] - ETA: 42:34 - loss: 0.2268 - acc: 0.9440**

**5900/10399 [================>.............] - ETA: 41:37 - loss: 0.2249 - acc: 0.9446**

**6000/10399 [================>.............] - ETA: 40:43 - loss: 0.2259 - acc: 0.9443**

**6100/10399 [================>.............] - ETA: 39:50 - loss: 0.2272 - acc: 0.9438**

**6200/10399 [================>.............] - ETA: 38:55 - loss: 0.2285 - acc: 0.9432**

**6300/10399 [=================>............] - ETA: 37:57 - loss: 0.2285 - acc: 0.9432**

**6400/10399 [=================>............] - ETA: 37:02 - loss: 0.2285 - acc: 0.9431**

**6500/10399 [=================>............] - ETA: 36:07 - loss: 0.2276 - acc: 0.9434**

**6600/10399 [==================>...........] - ETA: 35:12 - loss: 0.2286 - acc: 0.9430**

**6700/10399 [==================>...........] - ETA: 34:14 - loss: 0.2275 - acc: 0.9434**

**6800/10399 [==================>...........] - ETA: 33:17 - loss: 0.2259 - acc: 0.9438**

**6900/10399 [==================>...........] - ETA: 32:17 - loss: 0.2255 - acc: 0.9439**

**7000/10399 [===================>..........] - ETA: 31:17 - loss: 0.2256 - acc: 0.9439**

**7100/10399 [===================>..........] - ETA: 30:19 - loss: 0.2249 - acc: 0.9441**

**7200/10399 [===================>..........] - ETA: 29:23 - loss: 0.2236 - acc: 0.9444**

**7300/10399 [====================>.........] - ETA: 28:28 - loss: 0.2225 - acc: 0.9448**

**7400/10399 [====================>.........] - ETA: 27:33 - loss: 0.2232 - acc: 0.9446**

**7500/10399 [====================>.........] - ETA: 26:39 - loss: 0.2242 - acc: 0.9441**

**7600/10399 [====================>.........] - ETA: 25:44 - loss: 0.2232 - acc: 0.9445**

**7700/10399 [=====================>........] - ETA: 24:47 - loss: 0.2224 - acc: 0.9447**

**7800/10399 [=====================>........] - ETA: 23:52 - loss: 0.2226 - acc: 0.9446**

**7900/10399 [=====================>........] - ETA: 22:57 - loss: 0.2231 - acc: 0.9444**

**8000/10399 [======================>.......] - ETA: 22:01 - loss: 0.2239 - acc: 0.9441**

**8100/10399 [======================>.......] - ETA: 21:05 - loss: 0.2241 - acc: 0.9441**

**8200/10399 [======================>.......] - ETA: 20:09 - loss: 0.2242 - acc: 0.9440**

**8300/10399 [======================>.......] - ETA: 19:11 - loss: 0.2235 - acc: 0.9442**

**8400/10399 [=======================>......] - ETA: 18:17 - loss: 0.2246 - acc: 0.9439**

**8500/10399 [=======================>......] - ETA: 17:21 - loss: 0.2244 - acc: 0.9441**

**8600/10399 [=======================>......] - ETA: 16:25 - loss: 0.2240 - acc: 0.9442**

**8700/10399 [========================>.....] - ETA: 15:31 - loss: 0.2233 - acc: 0.9444**

**8800/10399 [========================>.....] - ETA: 14:36 - loss: 0.2240 - acc: 0.9442**

**8900/10399 [========================>.....] - ETA: 13:41 - loss: 0.2234 - acc: 0.9444**

**9000/10399 [========================>.....] - ETA: 12:46 - loss: 0.2224 - acc: 0.9447**

**9100/10399 [=========================>....] - ETA: 11:51 - loss: 0.2220 - acc: 0.9447**

**9200/10399 [=========================>....] - ETA: 10:56 - loss: 0.2211 - acc: 0.9450**

**9300/10399 [=========================>....] - ETA: 10:01 - loss: 0.2210 - acc: 0.9451**

**9400/10399 [==========================>...] - ETA: 9:07 - loss: 0.2207 - acc: 0.9451**

**9500/10399 [==========================>...] - ETA: 8:13 - loss: 0.2208 - acc: 0.9451**

**9600/10399 [==========================>...] - ETA: 7:19 - loss: 0.2209 - acc: 0.9450**

**9700/10399 [==========================>...] - ETA: 6:24 - loss: 0.2202 - acc: 0.9453**

**9800/10399 [===========================>..] - ETA: 5:29 - loss: 0.2242 - acc: 0.9451**

**9900/10399 [===========================>..] - ETA: 4:34 - loss: 0.2242 - acc: 0.9451**

**10000/10399 [===========================>..] - ETA: 3:39 - loss: 0.2247 - acc: 0.9448**

**10100/10399 [============================>.] - ETA: 2:44 - loss: 0.2244 - acc: 0.9450**

**10200/10399 [============================>.] - ETA: 1:49 - loss: 0.2256 - acc: 0.9446**

**10300/10399 [============================>.] - ETA: 54s - loss: 0.2260 - acc: 0.9445**

**10399/10399 [==============================] - 6210s 597ms/step - loss: 0.2255 - acc: 0.9446 - val\_loss: 0.1860 - val\_acc: 0.9542**

**Epoch 4/6**

**100/10399 [..............................] - ETA: 1:14:50 - loss: 0.1189 - acc: 0.9700**

**200/10399 [..............................] - ETA: 1:27:30 - loss: 0.1560 - acc: 0.9600**

**300/10399 [..............................] - ETA: 1:28:34 - loss: 0.1903 - acc: 0.9500**

**400/10399 [>.............................] - ETA: 1:34:28 - loss: 0.1823 - acc: 0.9550**

**500/10399 [>.............................] - ETA: 1:37:38 - loss: 0.1894 - acc: 0.9540**

**600/10399 [>.............................] - ETA: 1:36:16 - loss: 0.2123 - acc: 0.9450**

**700/10399 [=>............................] - ETA: 1:33:44 - loss: 0.2081 - acc: 0.9471**

**800/10399 [=>............................] - ETA: 1:31:49 - loss: 0.2076 - acc: 0.9475**

**900/10399 [=>............................] - ETA: 1:29:53 - loss: 0.2059 - acc: 0.9478**

**1000/10399 [=>............................] - ETA: 1:28:07 - loss: 0.2126 - acc: 0.9450**

**1100/10399 [==>...........................] - ETA: 1:27:25 - loss: 0.2101 - acc: 0.9464**

**1200/10399 [==>...........................] - ETA: 1:26:52 - loss: 0.2038 - acc: 0.9483**

**1300/10399 [==>...........................] - ETA: 1:25:47 - loss: 0.2047 - acc: 0.9485**

**1400/10399 [===>..........................] - ETA: 1:24:51 - loss: 0.2192 - acc: 0.9429**

**1500/10399 [===>..........................] - ETA: 1:23:55 - loss: 0.2228 - acc: 0.9427**

**1600/10399 [===>..........................] - ETA: 1:22:49 - loss: 0.2194 - acc: 0.9437**

**1700/10399 [===>..........................] - ETA: 1:21:19 - loss: 0.2199 - acc: 0.9435**

**1800/10399 [====>.........................] - ETA: 1:20:07 - loss: 0.2152 - acc: 0.9450**

**1900/10399 [====>.........................] - ETA: 1:18:52 - loss: 0.2108 - acc: 0.9463**

**2000/10399 [====>.........................] - ETA: 1:17:54 - loss: 0.2152 - acc: 0.9450**

**2100/10399 [=====>........................] - ETA: 1:16:39 - loss: 0.2155 - acc: 0.9448**

**2200/10399 [=====>........................] - ETA: 1:15:27 - loss: 0.2169 - acc: 0.9441**

**2300/10399 [=====>........................] - ETA: 1:14:13 - loss: 0.2183 - acc: 0.9435**

**2400/10399 [=====>........................] - ETA: 1:12:42 - loss: 0.2190 - acc: 0.9429**

**2500/10399 [======>.......................] - ETA: 1:11:22 - loss: 0.2183 - acc: 0.9432**

**2600/10399 [======>.......................] - ETA: 1:10:11 - loss: 0.2182 - acc: 0.9431**

**2700/10399 [======>.......................] - ETA: 1:08:38 - loss: 0.2196 - acc: 0.9426**

**2800/10399 [=======>......................] - ETA: 1:07:03 - loss: 0.2167 - acc: 0.9439**

**2900/10399 [=======>......................] - ETA: 1:05:29 - loss: 0.2160 - acc: 0.9445**

**3000/10399 [=======>......................] - ETA: 1:04:00 - loss: 0.2172 - acc: 0.9437**

**3100/10399 [=======>......................] - ETA: 1:02:33 - loss: 0.2168 - acc: 0.9439**

**3200/10399 [========>.....................] - ETA: 1:01:09 - loss: 0.2186 - acc: 0.9434**

**3300/10399 [========>.....................] - ETA: 59:51 - loss: 0.2169 - acc: 0.9445**

**3400/10399 [========>.....................] - ETA: 58:37 - loss: 0.2180 - acc: 0.9441**

**3500/10399 [=========>....................] - ETA: 57:21 - loss: 0.2194 - acc: 0.9443**

**3600/10399 [=========>....................] - ETA: 56:12 - loss: 0.2166 - acc: 0.9453**

**3700/10399 [=========>....................] - ETA: 54:59 - loss: 0.2163 - acc: 0.9454**

**3800/10399 [=========>....................] - ETA: 53:48 - loss: 0.2149 - acc: 0.9458**

**3900/10399 [==========>...................] - ETA: 52:39 - loss: 0.2155 - acc: 0.9456**

**4000/10399 [==========>...................] - ETA: 51:33 - loss: 0.2143 - acc: 0.9460**

**4100/10399 [==========>...................] - ETA: 50:30 - loss: 0.2155 - acc: 0.9456**

**4200/10399 [===========>..................] - ETA: 49:26 - loss: 0.2162 - acc: 0.9452**

**4300/10399 [===========>..................] - ETA: 48:24 - loss: 0.2183 - acc: 0.9442**

**4400/10399 [===========>..................] - ETA: 47:21 - loss: 0.2176 - acc: 0.9445**

**4500/10399 [===========>..................] - ETA: 46:22 - loss: 0.2164 - acc: 0.9449**

**4600/10399 [============>.................] - ETA: 45:21 - loss: 0.2185 - acc: 0.9441**

**4700/10399 [============>.................] - ETA: 44:24 - loss: 0.2191 - acc: 0.9438**

**4800/10399 [============>.................] - ETA: 43:28 - loss: 0.2195 - acc: 0.9438**

**4900/10399 [=============>................] - ETA: 42:32 - loss: 0.2170 - acc: 0.9445**

**5000/10399 [=============>................] - ETA: 41:35 - loss: 0.2179 - acc: 0.9444**

**5100/10399 [=============>................] - ETA: 40:39 - loss: 0.2172 - acc: 0.9445**

**5200/10399 [==============>...............] - ETA: 39:44 - loss: 0.2179 - acc: 0.9440**

**5300/10399 [==============>...............] - ETA: 38:50 - loss: 0.2163 - acc: 0.9447**

**5400/10399 [==============>...............] - ETA: 38:05 - loss: 0.2156 - acc: 0.9448**

**5500/10399 [==============>...............] - ETA: 37:19 - loss: 0.2140 - acc: 0.9453**

**5600/10399 [===============>..............] - ETA: 36:37 - loss: 0.2134 - acc: 0.9454**

**5700/10399 [===============>..............] - ETA: 35:50 - loss: 0.2136 - acc: 0.9453**

**5800/10399 [===============>..............] - ETA: 34:57 - loss: 0.2154 - acc: 0.9445**

**5900/10399 [================>.............] - ETA: 34:04 - loss: 0.2154 - acc: 0.9446**

**6000/10399 [================>.............] - ETA: 33:12 - loss: 0.2168 - acc: 0.9442**

**6100/10399 [================>.............] - ETA: 32:24 - loss: 0.2164 - acc: 0.9444**

**6200/10399 [================>.............] - ETA: 31:37 - loss: 0.2150 - acc: 0.9448**

**6300/10399 [=================>............] - ETA: 30:52 - loss: 0.2136 - acc: 0.9452**

**6400/10399 [=================>............] - ETA: 30:06 - loss: 0.2129 - acc: 0.9455**

**6500/10399 [=================>............] - ETA: 29:24 - loss: 0.2135 - acc: 0.9451**

**6600/10399 [==================>...........] - ETA: 28:40 - loss: 0.2140 - acc: 0.9447**

**6700/10399 [==================>...........] - ETA: 27:58 - loss: 0.2151 - acc: 0.9440**

**6800/10399 [==================>...........] - ETA: 27:15 - loss: 0.2149 - acc: 0.9441**

**6900/10399 [==================>...........] - ETA: 26:37 - loss: 0.2155 - acc: 0.9439**

**7000/10399 [===================>..........] - ETA: 26:05 - loss: 0.2145 - acc: 0.9444**

**7100/10399 [===================>..........] - ETA: 25:26 - loss: 0.2137 - acc: 0.9448**

**7200/10399 [===================>..........] - ETA: 24:54 - loss: 0.2126 - acc: 0.9451**

**7300/10399 [====================>.........] - ETA: 24:16 - loss: 0.2132 - acc: 0.9448**

**7400/10399 [====================>.........] - ETA: 23:36 - loss: 0.2125 - acc: 0.9451**

**7500/10399 [====================>.........] - ETA: 22:53 - loss: 0.2132 - acc: 0.9449**

**7600/10399 [====================>.........] - ETA: 22:08 - loss: 0.2121 - acc: 0.9453**

**7700/10399 [=====================>........] - ETA: 21:26 - loss: 0.2103 - acc: 0.9457**

**7800/10399 [=====================>........] - ETA: 20:40 - loss: 0.2103 - acc: 0.9456**

**7900/10399 [=====================>........] - ETA: 19:54 - loss: 0.2092 - acc: 0.9461**

**8000/10399 [======================>.......] - ETA: 19:08 - loss: 0.2086 - acc: 0.9463**

**8100/10399 [======================>.......] - ETA: 18:23 - loss: 0.2079 - acc: 0.9464**

**8200/10399 [======================>.......] - ETA: 17:38 - loss: 0.2089 - acc: 0.9461**

**8300/10399 [======================>.......] - ETA: 16:52 - loss: 0.2095 - acc: 0.9457**

**8400/10399 [=======================>......] - ETA: 16:06 - loss: 0.2088 - acc: 0.9458**

**8500/10399 [=======================>......] - ETA: 15:19 - loss: 0.2101 - acc: 0.9455**

**8600/10399 [=======================>......] - ETA: 14:32 - loss: 0.2109 - acc: 0.9451**

**8700/10399 [========================>.....] - ETA: 13:47 - loss: 0.2113 - acc: 0.9448**

**8800/10399 [========================>.....] - ETA: 13:00 - loss: 0.2118 - acc: 0.9445**

**8900/10399 [========================>.....] - ETA: 12:14 - loss: 0.2127 - acc: 0.9440**

**9000/10399 [========================>.....] - ETA: 11:26 - loss: 0.2122 - acc: 0.9443**

**9100/10399 [=========================>....] - ETA: 10:38 - loss: 0.2111 - acc: 0.9446**

**9200/10399 [=========================>....] - ETA: 9:51 - loss: 0.2101 - acc: 0.9449**

**9300/10399 [=========================>....] - ETA: 9:03 - loss: 0.2111 - acc: 0.9446**

**9400/10399 [==========================>...] - ETA: 8:16 - loss: 0.2109 - acc: 0.9447**

**9500/10399 [==========================>...] - ETA: 7:27 - loss: 0.2108 - acc: 0.9446**

**9600/10399 [==========================>...] - ETA: 6:37 - loss: 0.2114 - acc: 0.9444**

**9700/10399 [==========================>...] - ETA: 5:48 - loss: 0.2106 - acc: 0.9447**

**9800/10399 [===========================>..] - ETA: 4:58 - loss: 0.2106 - acc: 0.9447**

**9900/10399 [===========================>..] - ETA: 4:08 - loss: 0.2100 - acc: 0.9448**

**10000/10399 [===========================>..] - ETA: 3:19 - loss: 0.2102 - acc: 0.9447**

**10100/10399 [============================>.] - ETA: 2:30 - loss: 0.2105 - acc: 0.9445**

**10200/10399 [============================>.] - ETA: 1:40 - loss: 0.2099 - acc: 0.9447**

**10300/10399 [============================>.] - ETA: 50s - loss: 0.2101 - acc: 0.9447**

**10399/10399 [==============================] - 5862s 564ms/step - loss: 0.2100 - acc: 0.9446 - val\_loss: 0.2004 - val\_acc: 0.9542**

**Epoch 5/6**

**100/10399 [..............................] - ETA: 1:20:22 - loss: 0.4215 - acc: 0.8700**

**200/10399 [..............................] - ETA: 1:21:36 - loss: 0.3259 - acc: 0.9200**

**300/10399 [..............................] - ETA: 1:23:54 - loss: 0.2848 - acc: 0.9267**

**400/10399 [>.............................] - ETA: 1:25:43 - loss: 0.2370 - acc: 0.9400**

**500/10399 [>.............................] - ETA: 1:24:08 - loss: 0.2186 - acc: 0.9440**

**600/10399 [>.............................] - ETA: 1:23:42 - loss: 0.2155 - acc: 0.9450**

**700/10399 [=>............................] - ETA: 1:22:36 - loss: 0.2113 - acc: 0.9443**

**800/10399 [=>............................] - ETA: 1:22:29 - loss: 0.2173 - acc: 0.9425**

**900/10399 [=>............................] - ETA: 1:22:32 - loss: 0.2294 - acc: 0.9367**

**1000/10399 [=>............................] - ETA: 1:22:14 - loss: 0.2252 - acc: 0.9390**

**1100/10399 [==>...........................] - ETA: 1:20:54 - loss: 0.2201 - acc: 0.9400**

**1200/10399 [==>...........................] - ETA: 1:19:44 - loss: 0.2212 - acc: 0.9400**

**1300/10399 [==>...........................] - ETA: 1:18:56 - loss: 0.2205 - acc: 0.9400**

**1400/10399 [===>..........................] - ETA: 1:19:47 - loss: 0.2210 - acc: 0.9386**

**1500/10399 [===>..........................] - ETA: 1:19:15 - loss: 0.2196 - acc: 0.9387**

**1600/10399 [===>..........................] - ETA: 1:18:35 - loss: 0.2151 - acc: 0.9400**

**1700/10399 [===>..........................] - ETA: 1:17:53 - loss: 0.2210 - acc: 0.9382**

**1800/10399 [====>.........................] - ETA: 1:16:44 - loss: 0.2223 - acc: 0.9378**

**1900/10399 [====>.........................] - ETA: 1:15:28 - loss: 0.2206 - acc: 0.9379**

**2000/10399 [====>.........................] - ETA: 1:14:25 - loss: 0.2194 - acc: 0.9375**

**2100/10399 [=====>........................] - ETA: 1:14:00 - loss: 0.2178 - acc: 0.9381**

**2200/10399 [=====>........................] - ETA: 1:13:20 - loss: 0.2169 - acc: 0.9377**

**2300/10399 [=====>........................] - ETA: 1:12:29 - loss: 0.2170 - acc: 0.9378**

**2400/10399 [=====>........................] - ETA: 1:11:39 - loss: 0.2198 - acc: 0.9367**

**2500/10399 [======>.......................] - ETA: 1:10:43 - loss: 0.2200 - acc: 0.9364**

**2600/10399 [======>.......................] - ETA: 1:09:59 - loss: 0.2174 - acc: 0.9373**

**2700/10399 [======>.......................] - ETA: 1:09:28 - loss: 0.2135 - acc: 0.9385**

**2800/10399 [=======>......................] - ETA: 1:08:39 - loss: 0.2104 - acc: 0.9393**

**2900/10399 [=======>......................] - ETA: 1:08:03 - loss: 0.2087 - acc: 0.9400**

**3000/10399 [=======>......................] - ETA: 1:07:28 - loss: 0.2066 - acc: 0.9407**

**3100/10399 [=======>......................] - ETA: 1:06:59 - loss: 0.2059 - acc: 0.9410**

**3200/10399 [========>.....................] - ETA: 1:06:21 - loss: 0.2054 - acc: 0.9409**

**3300/10399 [========>.....................] - ETA: 1:05:42 - loss: 0.2051 - acc: 0.9412**

**3400/10399 [========>.....................] - ETA: 1:04:51 - loss: 0.2042 - acc: 0.9418**

**3500/10399 [=========>....................] - ETA: 1:04:04 - loss: 0.2010 - acc: 0.9429**

**3600/10399 [=========>....................] - ETA: 1:03:17 - loss: 0.1986 - acc: 0.9436**

**3700/10399 [=========>....................] - ETA: 1:02:03 - loss: 0.1952 - acc: 0.9446**

**3800/10399 [=========>....................] - ETA: 1:01:05 - loss: 0.1979 - acc: 0.9442**

**3900/10399 [==========>...................] - ETA: 1:00:04 - loss: 0.1988 - acc: 0.9436**

**4000/10399 [==========>...................] - ETA: 59:13 - loss: 0.1980 - acc: 0.9437**

**4100/10399 [==========>...................] - ETA: 58:25 - loss: 0.1993 - acc: 0.9434**

**4200/10399 [===========>..................] - ETA: 57:38 - loss: 0.1997 - acc: 0.9433**

**4300/10399 [===========>..................] - ETA: 56:35 - loss: 0.1982 - acc: 0.9437**

**4400/10399 [===========>..................] - ETA: 55:41 - loss: 0.2000 - acc: 0.9432**

**4500/10399 [===========>..................] - ETA: 54:48 - loss: 0.1995 - acc: 0.9433**

**4600/10399 [============>.................] - ETA: 53:55 - loss: 0.2012 - acc: 0.9428**

**4700/10399 [============>.................] - ETA: 52:50 - loss: 0.2003 - acc: 0.9432**

**4800/10399 [============>.................] - ETA: 51:57 - loss: 0.1969 - acc: 0.9444**

**4900/10399 [=============>................] - ETA: 51:05 - loss: 0.2001 - acc: 0.9437**

**5000/10399 [=============>................] - ETA: 50:17 - loss: 0.2027 - acc: 0.9426**

**5100/10399 [=============>................] - ETA: 49:22 - loss: 0.2015 - acc: 0.9433**

**5200/10399 [==============>...............] - ETA: 48:24 - loss: 0.1992 - acc: 0.9440**

**5300/10399 [==============>...............] - ETA: 47:28 - loss: 0.1990 - acc: 0.9442**

**5400/10399 [==============>...............] - ETA: 46:31 - loss: 0.1997 - acc: 0.9437**

**5500/10399 [==============>...............] - ETA: 45:25 - loss: 0.1985 - acc: 0.9442**

**5600/10399 [===============>..............] - ETA: 44:24 - loss: 0.1981 - acc: 0.9441**

**5700/10399 [===============>..............] - ETA: 43:24 - loss: 0.1982 - acc: 0.9439**

**5800/10399 [===============>..............] - ETA: 42:25 - loss: 0.1971 - acc: 0.9440**

**5900/10399 [================>.............] - ETA: 41:24 - loss: 0.1983 - acc: 0.9436**

**6000/10399 [================>.............] - ETA: 40:20 - loss: 0.1976 - acc: 0.9440**

**6100/10399 [================>.............] - ETA: 39:19 - loss: 0.1967 - acc: 0.9443**

**6200/10399 [================>.............] - ETA: 38:16 - loss: 0.1974 - acc: 0.9440**

**6300/10399 [=================>............] - ETA: 37:20 - loss: 0.1968 - acc: 0.9443**

**6400/10399 [=================>............] - ETA: 36:20 - loss: 0.1968 - acc: 0.9442**

**6500/10399 [=================>............] - ETA: 35:16 - loss: 0.1976 - acc: 0.9437**

**6600/10399 [==================>...........] - ETA: 34:27 - loss: 0.1973 - acc: 0.9439**

**6700/10399 [==================>...........] - ETA: 33:36 - loss: 0.1974 - acc: 0.9440**

**6800/10399 [==================>...........] - ETA: 32:48 - loss: 0.1966 - acc: 0.9443**

**6900/10399 [==================>...........] - ETA: 32:02 - loss: 0.1967 - acc: 0.9443**

**7000/10399 [===================>..........] - ETA: 31:14 - loss: 0.1960 - acc: 0.9447**

**7100/10399 [===================>..........] - ETA: 30:12 - loss: 0.1964 - acc: 0.9445**

**7200/10399 [===================>..........] - ETA: 29:12 - loss: 0.1952 - acc: 0.9450**

**7300/10399 [====================>.........] - ETA: 28:14 - loss: 0.1965 - acc: 0.9449**

**7400/10399 [====================>.........] - ETA: 27:14 - loss: 0.1973 - acc: 0.9445**

**7500/10399 [====================>.........] - ETA: 26:16 - loss: 0.1980 - acc: 0.9443**

**7600/10399 [====================>.........] - ETA: 25:17 - loss: 0.1987 - acc: 0.9441**

**7700/10399 [=====================>........] - ETA: 24:19 - loss: 0.1979 - acc: 0.9445**

**7800/10399 [=====================>........] - ETA: 23:21 - loss: 0.1974 - acc: 0.9447**

**7900/10399 [=====================>........] - ETA: 22:25 - loss: 0.1970 - acc: 0.9448**

**8000/10399 [======================>.......] - ETA: 21:28 - loss: 0.1975 - acc: 0.9445**

**8100/10399 [======================>.......] - ETA: 20:30 - loss: 0.1974 - acc: 0.9444**

**8200/10399 [======================>.......] - ETA: 19:33 - loss: 0.1979 - acc: 0.9440**

**8300/10399 [======================>.......] - ETA: 18:37 - loss: 0.1981 - acc: 0.9440**

**8400/10399 [=======================>......] - ETA: 17:41 - loss: 0.1977 - acc: 0.9442**

**8500/10399 [=======================>......] - ETA: 16:45 - loss: 0.1977 - acc: 0.9442**

**8600/10399 [=======================>......] - ETA: 15:49 - loss: 0.1982 - acc: 0.9438**

**8700/10399 [========================>.....] - ETA: 14:54 - loss: 0.1976 - acc: 0.9440**

**8800/10399 [========================>.....] - ETA: 13:59 - loss: 0.1967 - acc: 0.9443**

**8900/10399 [========================>.....] - ETA: 13:05 - loss: 0.1964 - acc: 0.9444**

**9000/10399 [========================>.....] - ETA: 12:12 - loss: 0.1962 - acc: 0.9444**

**9100/10399 [=========================>....] - ETA: 11:18 - loss: 0.1959 - acc: 0.9445**

**9200/10399 [=========================>....] - ETA: 10:24 - loss: 0.1957 - acc: 0.9445**

**9300/10399 [=========================>....] - ETA: 9:30 - loss: 0.1952 - acc: 0.9446**

**9400/10399 [==========================>...] - ETA: 8:37 - loss: 0.1951 - acc: 0.9446**

**9500/10399 [==========================>...] - ETA: 7:44 - loss: 0.1950 - acc: 0.9445**

**9600/10399 [==========================>...] - ETA: 6:52 - loss: 0.1947 - acc: 0.9447**

**9700/10399 [==========================>...] - ETA: 5:59 - loss: 0.1937 - acc: 0.9449**

**9800/10399 [===========================>..] - ETA: 5:07 - loss: 0.1930 - acc: 0.9452**

**9900/10399 [===========================>..] - ETA: 4:15 - loss: 0.1930 - acc: 0.9452**

**10000/10399 [===========================>..] - ETA: 3:24 - loss: 0.1929 - acc: 0.9451**

**10100/10399 [============================>.] - ETA: 2:32 - loss: 0.1934 - acc: 0.9450**

**10200/10399 [============================>.] - ETA: 1:41 - loss: 0.1938 - acc: 0.9446**

**10300/10399 [============================>.] - ETA: 50s - loss: 0.1934 - acc: 0.9446**

**10399/10399 [==============================] - 5595s 538ms/step - loss: 0.1933 - acc: 0.9446 - val\_loss: 0.2040 - val\_acc: 0.9542**

**Epoch 6/6**

**100/10399 [..............................] - ETA: 1:02:39 - loss: 0.2611 - acc: 0.9400**

**200/10399 [..............................] - ETA: 1:03:59 - loss: 0.2617 - acc: 0.9250**

**300/10399 [..............................] - ETA: 1:02:19 - loss: 0.2580 - acc: 0.9233**

**400/10399 [>.............................] - ETA: 1:01:54 - loss: 0.2418 - acc: 0.9325**

**500/10399 [>.............................] - ETA: 1:02:03 - loss: 0.2240 - acc: 0.9380**

**600/10399 [>.............................] - ETA: 1:01:44 - loss: 0.2105 - acc: 0.9417**

**700/10399 [=>............................] - ETA: 1:00:52 - loss: 0.2117 - acc: 0.9400**

**800/10399 [=>............................] - ETA: 1:00:08 - loss: 0.2138 - acc: 0.9387**

**900/10399 [=>............................] - ETA: 59:20 - loss: 0.2060 - acc: 0.9389**

**1000/10399 [=>............................] - ETA: 58:54 - loss: 0.2004 - acc: 0.9390**

**1100/10399 [==>...........................] - ETA: 58:06 - loss: 0.1967 - acc: 0.9400**

**1200/10399 [==>...........................] - ETA: 57:25 - loss: 0.1965 - acc: 0.9375**

**1300/10399 [==>...........................] - ETA: 57:09 - loss: 0.1938 - acc: 0.9385**

**1400/10399 [===>..........................] - ETA: 56:30 - loss: 0.1960 - acc: 0.9386**

**1500/10399 [===>..........................] - ETA: 55:42 - loss: 0.2014 - acc: 0.9367**

**1600/10399 [===>..........................] - ETA: 55:32 - loss: 0.1978 - acc: 0.9381**

**1700/10399 [===>..........................] - ETA: 54:48 - loss: 0.2023 - acc: 0.9365**

**1800/10399 [====>.........................] - ETA: 54:08 - loss: 0.2058 - acc: 0.9344**

**1900/10399 [====>.........................] - ETA: 53:35 - loss: 0.2073 - acc: 0.9326**

**2000/10399 [====>.........................] - ETA: 53:08 - loss: 0.2025 - acc: 0.9345**

**2100/10399 [=====>........................] - ETA: 52:33 - loss: 0.2026 - acc: 0.9348**

**2200/10399 [=====>........................] - ETA: 51:57 - loss: 0.2003 - acc: 0.9359**

**2300/10399 [=====>........................] - ETA: 51:13 - loss: 0.2035 - acc: 0.9357**

**2400/10399 [=====>........................] - ETA: 50:37 - loss: 0.2016 - acc: 0.9371**

**2500/10399 [======>.......................] - ETA: 50:07 - loss: 0.2019 - acc: 0.9372**

**2600/10399 [======>.......................] - ETA: 49:28 - loss: 0.2009 - acc: 0.9373**

**2700/10399 [======>.......................] - ETA: 48:56 - loss: 0.1985 - acc: 0.9389**

**2800/10399 [=======>......................] - ETA: 48:20 - loss: 0.1955 - acc: 0.9400**

**2900/10399 [=======>......................] - ETA: 48:06 - loss: 0.1919 - acc: 0.9410**

**3000/10399 [=======>......................] - ETA: 48:13 - loss: 0.1890 - acc: 0.9420**

**3100/10399 [=======>......................] - ETA: 47:39 - loss: 0.1893 - acc: 0.9416**

**3200/10399 [========>.....................] - ETA: 47:04 - loss: 0.1885 - acc: 0.9416**

**3300/10399 [========>.....................] - ETA: 46:23 - loss: 0.1875 - acc: 0.9418**

**3400/10399 [========>.....................] - ETA: 45:45 - loss: 0.1864 - acc: 0.9424**

**3500/10399 [=========>....................] - ETA: 45:12 - loss: 0.1847 - acc: 0.9429**

**3600/10399 [=========>....................] - ETA: 44:32 - loss: 0.1824 - acc: 0.9436**

**3700/10399 [=========>....................] - ETA: 43:53 - loss: 0.1801 - acc: 0.9443**

**3800/10399 [=========>....................] - ETA: 43:27 - loss: 0.1831 - acc: 0.9426**

**3900/10399 [==========>...................] - ETA: 43:06 - loss: 0.1846 - acc: 0.9431**

**4000/10399 [==========>...................] - ETA: 42:42 - loss: 0.1857 - acc: 0.9428**

**4100/10399 [==========>...................] - ETA: 42:19 - loss: 0.1858 - acc: 0.9424**

**4200/10399 [===========>..................] - ETA: 42:00 - loss: 0.1832 - acc: 0.9436**

**4300/10399 [===========>..................] - ETA: 41:36 - loss: 0.1841 - acc: 0.9435**

**4400/10399 [===========>..................] - ETA: 41:12 - loss: 0.1839 - acc: 0.9434**

**4500/10399 [===========>..................] - ETA: 40:36 - loss: 0.1826 - acc: 0.9442**

**4600/10399 [============>.................] - ETA: 39:54 - loss: 0.1828 - acc: 0.9441**

**4700/10399 [============>.................] - ETA: 39:07 - loss: 0.1832 - acc: 0.9438**

**4800/10399 [============>.................] - ETA: 38:23 - loss: 0.1831 - acc: 0.9433**

**4900/10399 [=============>................] - ETA: 37:38 - loss: 0.1836 - acc: 0.9433**

**5000/10399 [=============>................] - ETA: 36:53 - loss: 0.1833 - acc: 0.9436**

**5100/10399 [=============>................] - ETA: 36:07 - loss: 0.1821 - acc: 0.9439**

**5200/10399 [==============>...............] - ETA: 35:24 - loss: 0.1808 - acc: 0.9444**

**5300/10399 [==============>...............] - ETA: 34:39 - loss: 0.1805 - acc: 0.9442**

**5400/10399 [==============>...............] - ETA: 33:56 - loss: 0.1809 - acc: 0.9439**

**5500/10399 [==============>...............] - ETA: 33:12 - loss: 0.1794 - acc: 0.9444**

**5600/10399 [===============>..............] - ETA: 32:27 - loss: 0.1781 - acc: 0.9446**

**5700/10399 [===============>..............] - ETA: 31:43 - loss: 0.1782 - acc: 0.9447**

**5800/10399 [===============>..............] - ETA: 31:00 - loss: 0.1785 - acc: 0.9445**

**5900/10399 [================>.............] - ETA: 30:16 - loss: 0.1766 - acc: 0.9451**

**6000/10399 [================>.............] - ETA: 29:34 - loss: 0.1768 - acc: 0.9452**

**6100/10399 [================>.............] - ETA: 28:50 - loss: 0.1764 - acc: 0.9456**

**6200/10399 [================>.............] - ETA: 28:08 - loss: 0.1773 - acc: 0.9455**

**6300/10399 [=================>............] - ETA: 27:25 - loss: 0.1783 - acc: 0.9449**

**6400/10399 [=================>............] - ETA: 26:44 - loss: 0.1781 - acc: 0.9447**

**6500/10399 [=================>............] - ETA: 26:00 - loss: 0.1775 - acc: 0.9449**

**6600/10399 [==================>...........] - ETA: 25:20 - loss: 0.1774 - acc: 0.9448**

**6700/10399 [==================>...........] - ETA: 24:38 - loss: 0.1771 - acc: 0.9449**

**6800/10399 [==================>...........] - ETA: 23:56 - loss: 0.1764 - acc: 0.9451**

**6900/10399 [==================>...........] - ETA: 23:15 - loss: 0.1769 - acc: 0.9449**

**7000/10399 [===================>..........] - ETA: 22:34 - loss: 0.1760 - acc: 0.9451**

**7100/10399 [===================>..........] - ETA: 21:53 - loss: 0.1748 - acc: 0.9456**

**7200/10399 [===================>..........] - ETA: 21:12 - loss: 0.1760 - acc: 0.9454**

**7300/10399 [====================>.........] - ETA: 20:32 - loss: 0.1765 - acc: 0.9452**

**7400/10399 [====================>.........] - ETA: 19:51 - loss: 0.1765 - acc: 0.9454**

**7500/10399 [====================>.........] - ETA: 19:11 - loss: 0.1802 - acc: 0.9445**

**7600/10399 [====================>.........] - ETA: 18:29 - loss: 0.1799 - acc: 0.9451**

**7700/10399 [=====================>........] - ETA: 17:49 - loss: 0.1802 - acc: 0.9451**

**7800/10399 [=====================>........] - ETA: 17:08 - loss: 0.1807 - acc: 0.9447**

**7900/10399 [=====================>........] - ETA: 16:28 - loss: 0.1809 - acc: 0.9447**

**8000/10399 [======================>.......] - ETA: 15:47 - loss: 0.1814 - acc: 0.9444**

**8100/10399 [======================>.......] - ETA: 15:07 - loss: 0.1814 - acc: 0.9444**

**8200/10399 [======================>.......] - ETA: 14:27 - loss: 0.1807 - acc: 0.9448**

**8300/10399 [======================>.......] - ETA: 13:47 - loss: 0.1807 - acc: 0.9446**

**8400/10399 [=======================>......] - ETA: 13:07 - loss: 0.1796 - acc: 0.9451**

**8500/10399 [=======================>......] - ETA: 12:26 - loss: 0.1788 - acc: 0.9454**

**8600/10399 [=======================>......] - ETA: 11:46 - loss: 0.1791 - acc: 0.9455**

**8700/10399 [========================>.....] - ETA: 11:07 - loss: 0.1792 - acc: 0.9454**

**8800/10399 [========================>.....] - ETA: 10:27 - loss: 0.1807 - acc: 0.9451**

**8900/10399 [========================>.....] - ETA: 9:47 - loss: 0.1804 - acc: 0.9454**

**9000/10399 [========================>.....] - ETA: 9:08 - loss: 0.1802 - acc: 0.9453**

**9100/10399 [=========================>....] - ETA: 8:28 - loss: 0.1798 - acc: 0.9455**

**9200/10399 [=========================>....] - ETA: 7:48 - loss: 0.1797 - acc: 0.9457**

**9300/10399 [=========================>....] - ETA: 7:09 - loss: 0.1805 - acc: 0.9452**

**9400/10399 [==========================>...] - ETA: 6:30 - loss: 0.1803 - acc: 0.9453**

**9500/10399 [==========================>...] - ETA: 5:50 - loss: 0.1817 - acc: 0.9447**

**9600/10399 [==========================>...] - ETA: 5:11 - loss: 0.1810 - acc: 0.9452**

**9700/10399 [==========================>...] - ETA: 4:32 - loss: 0.1809 - acc: 0.9453**

**9800/10399 [===========================>..] - ETA: 3:53 - loss: 0.1810 - acc: 0.9452**

**9900/10399 [===========================>..] - ETA: 3:14 - loss: 0.1803 - acc: 0.9454**

**10000/10399 [===========================>..] - ETA: 2:35 - loss: 0.1799 - acc: 0.9455**

**10100/10399 [============================>.] - ETA: 1:56 - loss: 0.1796 - acc: 0.9455**

**10200/10399 [============================>.] - ETA: 1:17 - loss: 0.1790 - acc: 0.9457**

**10300/10399 [============================>.] - ETA: 38s - loss: 0.1787 - acc: 0.9457**

**10399/10399 [==============================] - 4350s 418ms/step - loss: 0.1795 - acc: 0.9452 - val\_loss: 0.2890 - val\_acc: 0.9335**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Training the proposed model ........**

**--------------------------------------------------------------------------------**

**Saving Trained Model to file : Pre\_Trained\_Global\_Model........**

**--------------------------------------------------------------------------------**

**Saved model to disk**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Plotting the results ........**

**--------------------------------------------------------------------------------**

**[Finished in 32347.8s]**