

Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)]
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IPython 7.2.0 -- An enhanced Interactive Python.

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In [1]: runfile('C:/Users/Nitesh Vudutha/Downloads/Spring Semester/Deep Learning/
Assignments/Assignment 8/DL8A.py', wdir='C:/Users/Nitesh Vudutha/Downloads/Spring
Semester/Deep Learning/Assignments/Assignment 8')
Downloading data from https://storage.googleapis.com/tensorflow/tf-keras-datasets/imdb.npz
17465344/17464789 [=====] - 2s 0us/step
(25000,)
Downloading data from https://storage.googleapis.com/tensorflow/tf-keras-datasets/
imdb_word_index.json
1646592/1641221 [=====] - 0s 0us/step
WARNING:tensorflow:From C:\Users\Nitesh Vudutha\Anaconda3\lib\site-packages\tensorflow
\python\ops\resource_variable_ops.py:435: colocate_with (from
tensorflow.python.framework.ops) is deprecated and will be removed in a future version.
Instructions for updating:
Colocations handled automatically by placer.
Train on 15000 samples, validate on 10000 samples
WARNING:tensorflow:From C:\Users\Nitesh Vudutha\Anaconda3\lib\site-packages\tensorflow
\python\ops\math_ops.py:3066: to_int32 (from tensorflow.python.ops.math_ops) is deprecated
and will be removed in a future version.
Instructions for updating:
Use tf.cast instead.
Epoch 1/40
15000/15000 [=====] - 1s 67us/sample - loss: 0.6918 - acc: 0.5659
- val_loss: 0.6899 - val_acc: 0.6472
Epoch 2/40
15000/15000 [=====] - 1s 45us/sample - loss: 0.6862 - acc: 0.7067
- val_loss: 0.6823 - val_acc: 0.7110
Epoch 3/40
15000/15000 [=====] - 1s 48us/sample - loss: 0.6739 - acc: 0.7421
- val_loss: 0.6665 - val_acc: 0.7539
Epoch 4/40
15000/15000 [=====] - 1s 50us/sample - loss: 0.6514 - acc: 0.7530
- val_loss: 0.6403 - val_acc: 0.7628
Epoch 5/40
15000/15000 [=====] - 1s 50us/sample - loss: 0.6174 - acc: 0.7863
- val_loss: 0.6047 - val_acc: 0.7834
Epoch 6/40
15000/15000 [=====] - 1s 48us/sample - loss: 0.5742 - acc: 0.8107
- val_loss: 0.5632 - val_acc: 0.7987
Epoch 7/40
15000/15000 [=====] - 1s 50us/sample - loss: 0.5259 - acc: 0.8273
- val_loss: 0.5180 - val_acc: 0.8188
Epoch 8/40
15000/15000 [=====] - 1s 55us/sample - loss: 0.4779 - acc: 0.8461
- val_loss: 0.4765 - val_acc: 0.8329
Epoch 9/40
15000/15000 [=====] - 1s 49us/sample - loss: 0.4335 - acc: 0.8599
- val_loss: 0.4394 - val_acc: 0.8437
Epoch 10/40
15000/15000 [=====] - 1s 45us/sample - loss: 0.3945 - acc: 0.8733
- val_loss: 0.4092 - val_acc: 0.8516
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Epoch 11/40
15000/15000 [=====] - 1s 48us/sample - loss: 0.3618 - acc: 0.8812
- val_loss: 0.3842 - val_acc: 0.8587

Epoch 12/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.3343 - acc: 0.8899
- val_loss: 0.3652 - val_acc: 0.8624

Epoch 13/40
15000/15000 [=====] - 1s 46us/sample - loss: 0.3118 - acc: 0.8967
- val_loss: 0.3485 - val_acc: 0.8679

Epoch 14/40
15000/15000 [=====] - 1s 45us/sample - loss: 0.2916 - acc: 0.9010
- val_loss: 0.3363 - val_acc: 0.8719

Epoch 15/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.2748 - acc: 0.9065
- val_loss: 0.3261 - val_acc: 0.8745

Epoch 16/40
15000/15000 [=====] - 1s 45us/sample - loss: 0.2596 - acc: 0.9113
- val_loss: 0.3178 - val_acc: 0.8747

Epoch 17/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.2456 - acc: 0.9161
- val_loss: 0.3108 - val_acc: 0.8780

Epoch 18/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.2333 - acc: 0.9209
- val_loss: 0.3048 - val_acc: 0.8799

Epoch 19/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.2221 - acc: 0.9226
- val_loss: 0.2999 - val_acc: 0.8819

Epoch 20/40
15000/15000 [=====] - 1s 46us/sample - loss: 0.2121 - acc: 0.9268
- val_loss: 0.2964 - val_acc: 0.8817

Epoch 21/40
15000/15000 [=====] - 1s 45us/sample - loss: 0.2018 - acc: 0.9321
- val_loss: 0.2936 - val_acc: 0.8818

Epoch 22/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.1932 - acc: 0.9346
- val_loss: 0.2908 - val_acc: 0.8845

Epoch 23/40
15000/15000 [=====] - 1s 46us/sample - loss: 0.1846 - acc: 0.9393
- val_loss: 0.2899 - val_acc: 0.8833

Epoch 24/40
15000/15000 [=====] - 1s 47us/sample - loss: 0.1771 - acc: 0.9426
- val_loss: 0.2884 - val_acc: 0.8850

Epoch 25/40
15000/15000 [=====] - 1s 46us/sample - loss: 0.1694 - acc: 0.9460
- val_loss: 0.2867 - val_acc: 0.8844

Epoch 26/40
15000/15000 [=====] - 1s 47us/sample - loss: 0.1626 - acc: 0.9485
- val_loss: 0.2874 - val_acc: 0.8835

Epoch 27/40
15000/15000 [=====] - 1s 48us/sample - loss: 0.1560 - acc: 0.9511
- val_loss: 0.2868 - val_acc: 0.8847

Epoch 28/40
15000/15000 [=====] - 1s 49us/sample - loss: 0.1498 - acc: 0.9541
- val_loss: 0.2874 - val_acc: 0.8857

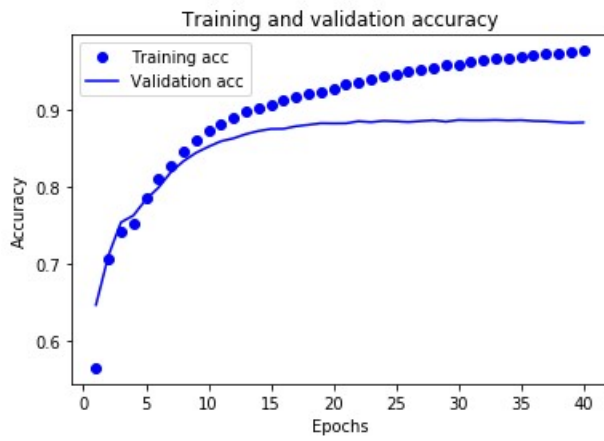
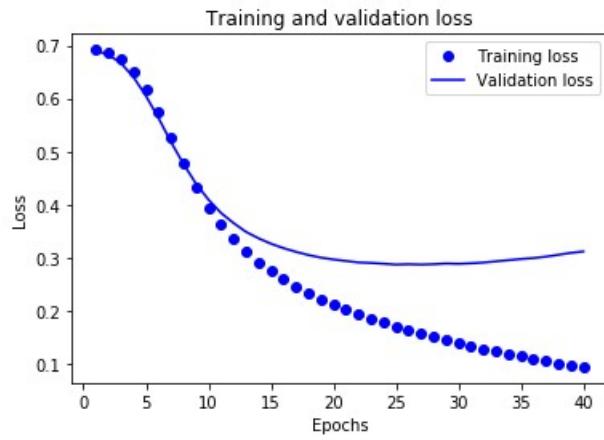
Epoch 29/40

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15000/15000 [=====] - 1s 50us/sample - loss: 0.1444 - acc: 0.9571
- val_loss: 0.2888 - val_acc: 0.8839
Epoch 30/40
15000/15000 [=====] - 1s 47us/sample - loss: 0.1387 - acc: 0.9584
- val_loss: 0.2882 - val_acc: 0.8861
Epoch 31/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.1329 - acc: 0.9609
- val_loss: 0.2892 - val_acc: 0.8857
Epoch 32/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.1277 - acc: 0.9637
- val_loss: 0.2906 - val_acc: 0.8857
Epoch 33/40
15000/15000 [=====] - 1s 45us/sample - loss: 0.1227 - acc: 0.9653
- val_loss: 0.2929 - val_acc: 0.8861
Epoch 34/40
15000/15000 [=====] - 1s 47us/sample - loss: 0.1182 - acc: 0.9667
- val_loss: 0.2951 - val_acc: 0.8855
Epoch 35/40
15000/15000 [=====] - 1s 45us/sample - loss: 0.1141 - acc: 0.9674
- val_loss: 0.2973 - val_acc: 0.8859
Epoch 36/40
15000/15000 [=====] - 1s 46us/sample - loss: 0.1096 - acc: 0.9698
- val_loss: 0.2990 - val_acc: 0.8848
Epoch 37/40
15000/15000 [=====] - 1s 47us/sample - loss: 0.1052 - acc: 0.9712
- val_loss: 0.3017 - val_acc: 0.8844
Epoch 38/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.1013 - acc: 0.9726
- val_loss: 0.3052 - val_acc: 0.8833
Epoch 39/40
15000/15000 [=====] - 1s 45us/sample - loss: 0.0982 - acc: 0.9738
- val_loss: 0.3088 - val_acc: 0.8825
Epoch 40/40
15000/15000 [=====] - 1s 44us/sample - loss: 0.0940 - acc: 0.9756
- val_loss: 0.3115 - val_acc: 0.8829
25000/25000 [=====] - 1s 28us/sample - loss: 0.3324 - acc: 0.8719
[0.3324268946552277, 0.87188]
dict_keys(['loss', 'acc', 'val_loss', 'val_acc'])
[ 1 13 219 14 20 23 830 1964 14 2655 5 13 191 67
 89 259 70 870 143 14 418 7 1157 45 24 163 33 32
 5 12 304 129 13 3891 180 6 171 2 13 124 14 20
 9 18 362 21 15 152 384 4 927 144 193 68 1663 18
2482 13 2134 15 927 71 1266 187 6 1058 1639 2702 5 2626
 15 6 4 681 2 9538 194 462 503 6 689 2020 3676 554
 70 2 23 6 747 2020 3676 4730 5784 1148 362 144 210 548
 2 4475 19 1865 88 4 2 80 809 18 233 5 1095 342
1928 7 6620 2333 9 32 25 359 8 1559 56 38 446 8091
 19 9092 31 52 155 13 70 135 44 14 20 9 12 1367
 4 4343 6371 1366 11 4 182 15 426 2337 1814 279 4 493
 33 3179 100 361 14 20 18 6 52 462 92 1414 19 14
835 1995 1338 18 6 20 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0]
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In [2]: