```
1 C:\Python35\python.exe M:/ce888/ce888-assignment2/
  n conv autoencoder cifar10.py
2 Using TensorFlow backend.
3 Downloading data from http://www.cs.toronto.edu/~kriz/
  cifar-10-python.tar.gz
: 0sx train shape: (50000, 32, 32, 3)
5 50000 train samples
6 10000 test samples
7 Train on 50000 samples, validate on 10000 samples
8 Epoch 1/20
9 2018-04-16 15:02:24.807198: W C:\tf jenkins\home\workspace
  \rel-win\M\windows\PY\35\tensorflow\core\platform\
  cpu feature quard.cc:45] The TensorFlow library wasn't
  compiled to use AVX instructions, but these are available
  on your machine and could speed up CPU computations.
10 2018-04-16 15:02:24.807529: W C:\tf jenkins\home\workspace
  \rel-win\M\windows\PY\35\tensorflow\core\platform\
  cpu feature guard.cc:45] The TensorFlow library wasn't
  compiled to use AVX2 instructions, but these are available
   on your machine and could speed up CPU computations.
11 50000/50000 [============= ] - 565s - loss
  : 0.5827 - val loss: 0.5738
12 Epoch 2/20
13 50000/50000 [============= ] - 563s - loss
  : 0.5727 - val loss: 0.5711
14 Epoch 3/20
: 0.5698 - val loss: 0.5703
16 Epoch 4/20
17 50000/50000 [============= ] - 557s - loss
  : 0.5683 - val loss: 0.5676
18 Epoch 5/20
19 50000/50000 [=========== ] - 556s - loss
  : 0.5674 - val loss: 0.5666
20 Epoch 6/20
21 50000/50000 [============ ] - 556s - loss
  : 0.5668 - val loss: 0.5664
22 Epoch 7/20
23 50000/50000 [============ ] - 560s - loss
  : 0.5663 - val loss: 0.5671
24 Epoch 8/20
25 50000/50000 [============== ] - 558s - loss
  : 0.5659 - val loss: 0.5648
26 Epoch 9/20
```

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27 50000/50000 [============ ] - 548s - loss
  : 0.5657 - val loss: 0.5649
28 Epoch 10/20
29 50000/50000 [=========== ] - 529s - loss
  : 0.5653 - val loss: 0.5667
30 Epoch 11/20
31 50000/50000 [============= ] - 530s - loss
  : 0.5651 - val loss: 0.5652
32 Epoch 12/20
33 50000/50000 [=========== ] - 546s - loss
  : 0.5649 - val loss: 0.5645
34 Epoch 13/20
35 50000/50000 [============= ] - 540s - loss
  : 0.5647 - val loss: 0.5645
36 Epoch 14/20
37 50000/50000 [============== ] - 588s - loss
  : 0.5645 - val loss: 0.5638
38 Epoch 15/20
39 50000/50000 [=========== ] - 583s - loss
  : 0.5643 - val loss: 0.5639
40 Epoch 16/20
41 50000/50000 [============ ] - 583s - loss
  : 0.5642 - val loss: 0.5642
42 Epoch 17/20
: 0.5642 - val loss: 0.5645
44 Epoch 18/20
: 0.5640 - val loss: 0.5631
46 Epoch 19/20
47 50000/50000 [============= ] - 589s - loss
  : 0.5638 - val loss: 0.5638
48 Epoch 20/20
49 50000/50000 [=========== ] - 585s - loss
  : 0.5638 - val loss: 0.5635
51 The loss on x test : 0.563475219345
52 The accuracy on x test : 0.436524780655
====
54 The loss on x train : 0.562509128342
55 The accuracy on x train : 0.437490871658
```

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| 57 | The loss on x1_train : -1908.422082656250 |
| | The accuracy on x1_train : 1909.422082656250 |
| | ======================================= |
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| | |
| 60 | The loss on x2_train : -1908.422082343750 |
| 61 | The accuracy on x2_train : 1909.422082343750 |
| | _ |
| | ==== |
| | |
| | The loss on x3_train : -1908.422082734375 |
| | The accuracy on x3_train : 1909.422082734375 |
| 65 | |
| 66 | Process finished with exit code 0 |
| 67 | |
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