**Result train model**

**Epoch : 50**

**Batch\_size : 128**

Epoch 1/50

163584/163621 [============================>.] - ETA: 1s - loss: 2.9082Epoch 00000: loss improved from inf to 2.90829, saving model to saved\_models/weights-improvement-00-2.9083.hdf5

163621/163621 [==============================] - 6029s - loss: 2.9083

Epoch 2/50

163584/163621 [============================>.] - ETA: 1s - loss: 2.6113Epoch 00001: loss improved from 2.90829 to 2.61121, saving model to saved\_models/weights-improvement-01-2.6112.hdf5

163621/163621 [==============================] - 5779s - loss: 2.6112

Epoch 3/50

163584/163621 [============================>.] - ETA: 1s - loss: 2.4221Epoch 00002: loss improved from 2.61121 to 2.42212, saving model to saved\_models/weights-improvement-02-2.4221.hdf5

163621/163621 [==============================] - 5795s - loss: 2.4221

Epoch 4/50

163584/163621 [============================>.] - ETA: 1s - loss: 2.2724Epoch 00003: loss improved from 2.42212 to 2.27221, saving model to saved\_models/weights-improvement-03-2.2722.hdf5

163621/163621 [==============================] - 5787s - loss: 2.2722

Epoch 5/50

163584/163621 [============================>.] - ETA: 1s - loss: 2.1630Epoch 00004: loss improved from 2.27221 to 2.16297, saving model to saved\_models/weights-improvement-04-2.1630.hdf5

163621/163621 [==============================] - 5905s - loss: 2.1630

Epoch 6/50

163584/163621 [============================>.] - ETA: 1s - loss: 2.0790Epoch 00005: loss improved from 2.16297 to 2.07899, saving model to saved\_models/weights-improvement-05-2.0790.hdf5

163621/163621 [==============================] - 5808s - loss: 2.0790

Epoch 7/50

163584/163621 [============================>.] - ETA: 1s - loss: 2.0131Epoch 00006: loss improved from 2.07899 to 2.01314, saving model to saved\_models/weights-improvement-06-2.0131.hdf5

163621/163621 [==============================] - 5830s - loss: 2.0131

Epoch 8/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.9568Epoch 00007: loss improved from 2.01314 to 1.95677, saving model to saved\_models/weights-improvement-07-1.9568.hdf5

163621/163621 [==============================] - 5908s - loss: 1.9568

Epoch 9/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.9060Epoch 00008: loss improved from 1.95677 to 1.90604, saving model to saved\_models/weights-improvement-08-1.9060.hdf5

163621/163621 [==============================] - 5839s - loss: 1.9060

Epoch 10/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.8646Epoch 00009: loss improved from 1.90604 to 1.86468, saving model to saved\_models/weights-improvement-09-1.8647.hdf5

163621/163621 [==============================] - 5928s - loss: 1.8647

Epoch 11/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.8242Epoch 00010: loss improved from 1.86468 to 1.82409, saving model to saved\_models/weights-improvement-10-1.8241.hdf5

163621/163621 [==============================] - 6025s - loss: 1.8241

Epoch 12/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.7912Epoch 00011: loss improved from 1.82409 to 1.79117, saving model to saved\_models/weights-improvement-11-1.7912.hdf5

163621/163621 [==============================] - 7378s - loss: 1.7912

Epoch 13/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.7588Epoch 00012: loss improved from 1.79117 to 1.75886, saving model to saved\_models/weights-improvement-12-1.7589.hdf5

163621/163621 [==============================] - 6112s - loss: 1.7589

Epoch 14/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.7300Epoch 00013: loss improved from 1.75886 to 1.73003, saving model to saved\_models/weights-improvement-13-1.7300.hdf5

163621/163621 [==============================] - 6569s - loss: 1.7300

Epoch 15/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.7038Epoch 00014: loss improved from 1.73003 to 1.70380, saving model to saved\_models/weights-improvement-14-1.7038.hdf5

163621/163621 [==============================] - 6370s - loss: 1.7038

Epoch 16/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.6758Epoch 00015: loss improved from 1.70380 to 1.67590, saving model to saved\_models/weights-improvement-15-1.6759.hdf5

163621/163621 [==============================] - 5909s - loss: 1.6759

Epoch 17/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.6553Epoch 00016: loss improved from 1.67590 to 1.65520, saving model to saved\_models/weights-improvement-16-1.6552.hdf5

163621/163621 [==============================] - 5849s - loss: 1.6552

Epoch 18/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.6344Epoch 00017: loss improved from 1.65520 to 1.63442, saving model to saved\_models/weights-improvement-17-1.6344.hdf5

163621/163621 [==============================] - 5852s - loss: 1.6344

Epoch 19/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.6143Epoch 00018: loss improved from 1.63442 to 1.61431, saving model to saved\_models/weights-improvement-18-1.6143.hdf5

163621/163621 [==============================] - 5861s - loss: 1.6143

Epoch 20/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.5952Epoch 00019: loss improved from 1.61431 to 1.59517, saving model to saved\_models/weights-improvement-19-1.5952.hdf5

163621/163621 [==============================] - 5860s - loss: 1.5952

Epoch 21/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.5765Epoch 00020: loss improved from 1.59517 to 1.57645, saving model to saved\_models/weights-improvement-20-1.5765.hdf5

163621/163621 [==============================] - 6012s - loss: 1.5765

Epoch 22/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.5634Epoch 00021: loss improved from 1.57645 to 1.56339, saving model to saved\_models/weights-improvement-21-1.5634.hdf5

163621/163621 [==============================] - 5941s - loss: 1.5634

Epoch 23/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.5457Epoch 00022: loss improved from 1.56339 to 1.54577, saving model to saved\_models/weights-improvement-22-1.5458.hdf5

163621/163621 [==============================] - 6032s - loss: 1.5458

Epoch 24/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.5333Epoch 00023: loss improved from 1.54577 to 1.53337, saving model to saved\_models/weights-improvement-23-1.5334.hdf5

163621/163621 [==============================] - 6149s - loss: 1.5334

Epoch 25/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.5203Epoch 00024: loss improved from 1.53337 to 1.52028, saving model to saved\_models/weights-improvement-24-1.5203.hdf5

163621/163621 [==============================] - 6049s - loss: 1.5203

Epoch 26/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.5040Epoch 00025: loss improved from 1.52028 to 1.50402, saving model to saved\_models/weights-improvement-25-1.5040.hdf5

163621/163621 [==============================] - 5931s - loss: 1.5040

Epoch 27/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4942Epoch 00026: loss improved from 1.50402 to 1.49413, saving model to saved\_models/weights-improvement-26-1.4941.hdf5

163621/163621 [==============================] - 5933s - loss: 1.4941

Epoch 28/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4827Epoch 00027: loss improved from 1.49413 to 1.48262, saving model to saved\_models/weights-improvement-27-1.4826.hdf5

163621/163621 [==============================] - 6090s - loss: 1.4826

Epoch 29/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4733Epoch 00028: loss improved from 1.48262 to 1.47327, saving model to saved\_models/weights-improvement-28-1.4733.hdf5

163621/163621 [==============================] - 6265s - loss: 1.4733

Epoch 30/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4652Epoch 00029: loss improved from 1.47327 to 1.46526, saving model to saved\_models/weights-improvement-29-1.4653.hdf5

163621/163621 [==============================] - 5951s - loss: 1.4653

Epoch 31/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4517Epoch 00030: loss improved from 1.46526 to 1.45170, saving model to saved\_models/weights-improvement-30-1.4517.hdf5

163621/163621 [==============================] - 5929s - loss: 1.4517

Epoch 32/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4405Epoch 00031: loss improved from 1.45170 to 1.44058, saving model to saved\_models/weights-improvement-31-1.4406.hdf5

163621/163621 [==============================] - 5891s - loss: 1.4406

Epoch 33/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4370Epoch 00032: loss improved from 1.44058 to 1.43706, saving model to saved\_models/weights-improvement-32-1.4371.hdf5

163621/163621 [==============================] - 5889s - loss: 1.4371

Epoch 34/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4256Epoch 00033: loss improved from 1.43706 to 1.42556, saving model to saved\_models/weights-improvement-33-1.4256.hdf5

163621/163621 [==============================] - 5878s - loss: 1.4256

Epoch 35/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4179Epoch 00034: loss improved from 1.42556 to 1.41779, saving model to saved\_models/weights-improvement-34-1.4178.hdf5

163621/163621 [==============================] - 5911s - loss: 1.4178

Epoch 36/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4141Epoch 00035: loss improved from 1.41779 to 1.41406, saving model to saved\_models/weights-improvement-35-1.4141.hdf5

163621/163621 [==============================] - 5878s - loss: 1.4141

Epoch 37/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4024Epoch 00036: loss improved from 1.41406 to 1.40237, saving model to saved\_models/weights-improvement-36-1.4024.hdf5

163621/163621 [==============================] - 5968s - loss: 1.4024

Epoch 38/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.4012Epoch 00037: loss improved from 1.40237 to 1.40118, saving model to saved\_models/weights-improvement-37-1.4012.hdf5

163621/163621 [==============================] - 5886s - loss: 1.4012

Epoch 39/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3901Epoch 00038: loss improved from 1.40118 to 1.39005, saving model to saved\_models/weights-improvement-38-1.3901.hdf5

163621/163621 [==============================] - 5928s - loss: 1.3901

Epoch 40/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3892Epoch 00039: loss improved from 1.39005 to 1.38922, saving model to saved\_models/weights-improvement-39-1.3892.hdf5

163621/163621 [==============================] - 5916s - loss: 1.3892

Epoch 41/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3841Epoch 00040: loss improved from 1.38922 to 1.38414, saving model to saved\_models/weights-improvement-40-1.3841.hdf5

163621/163621 [==============================] - 5937s - loss: 1.3841

Epoch 42/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3728Epoch 00041: loss improved from 1.38414 to 1.37282, saving model to saved\_models/weights-improvement-41-1.3728.hdf5

163621/163621 [==============================] - 5884s - loss: 1.3728

Epoch 43/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3721Epoch 00042: loss improved from 1.37282 to 1.37206, saving model to saved\_models/weights-improvement-42-1.3721.hdf5

163621/163621 [==============================] - 5901s - loss: 1.3721

Epoch 44/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3688Epoch 00043: loss improved from 1.37206 to 1.36877, saving model to saved\_models/weights-improvement-43-1.3688.hdf5

163621/163621 [==============================] - 5957s - loss: 1.3688

Epoch 45/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3622Epoch 00044: loss improved from 1.36877 to 1.36229, saving model to saved\_models/weights-improvement-44-1.3623.hdf5

163621/163621 [==============================] - 5943s - loss: 1.3623

Epoch 46/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3565Epoch 00045: loss improved from 1.36229 to 1.35654, saving model to saved\_models/weights-improvement-45-1.3565.hdf5

163621/163621 [==============================] - 5912s - loss: 1.3565

Epoch 47/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3596Epoch 00046: loss did not improve

163621/163621 [==============================] - 5912s - loss: 1.3596

Epoch 48/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3492Epoch 00047: loss improved from 1.35654 to 1.34926, saving model to saved\_models/weights-improvement-47-1.3493.hdf5

163621/163621 [==============================] - 5919s - loss: 1.3493

Epoch 49/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3567Epoch 00048: loss did not improve

163621/163621 [==============================] - 5955s - loss: 1.3567

Epoch 50/50

163584/163621 [============================>.] - ETA: 1s - loss: 1.3420Epoch 00049: loss improved from 1.34926 to 1.34199, saving model to saved\_models/weights-improvement-49-1.3420.hdf5

163621/163621 [==============================] - 5937s - loss: 1.3420