

Using TensorFlow backend.

```
Reading...
Reading...end.
val_lists=121
test_n_sample=72
train_n_sample=2239
```



Layer (type)	Output Shape	Param #
conv2d_1 (Conv2D)	(None, 256, 256, 32)	320
conv2d_2 (Conv2D)	(None, 128, 128, 64)	18496
conv2d_3 (Conv2D)	(None, 64, 64, 128)	73856
conv2d_4 (Conv2D)	(None, 32, 32, 256)	295168
conv2d_transpose_1 (Conv2DTr	(None, 64, 64, 128)	295040
conv2d_transpose_2 (Conv2DTr	(None, 128, 128, 64)	73792
conv2d_transpose_3 (Conv2DTr	(None, 256, 256, 32)	18464
conv2d_transpose_4 (Conv2DTr	(None, 256, 256, 2)	66

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=====
Total params: 775,202
Trainable params: 775,202
Non-trainable params: 0
```

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Epoch 1/120
38/38 [=====] - 20s 533ms/step - loss: 5640.9807 -
val_loss: 2818.7762
Epoch 2/120
38/38 [=====] - 17s 449ms/step - loss: 2629.5031 -
val_loss: 2530.0427
Epoch 3/120
38/38 [=====] - 18s 475ms/step - loss: 2292.6635 -
val_loss: 2315.5103
Epoch 4/120
38/38 [=====] - 18s 475ms/step - loss: 2208.7704 -
val_loss: 2411.2112
Epoch 5/120
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38/38 [=====] - 18s 475ms/step - loss: 2210.0611 -
val_loss: 2260.3058
Epoch 6/120
38/38 [=====] - 18s 474ms/step - loss: 2059.0401 -
val_loss: 2015.2668
Epoch 7/120
38/38 [=====] - 18s 476ms/step - loss: 1921.4249 -
val_loss: 2494.4499
Epoch 8/120
38/38 [=====] - 18s 475ms/step - loss: 1947.3909 -
val_loss: 1858.5238
Epoch 9/120
38/38 [=====] - 18s 477ms/step - loss: 1896.4715 -
val_loss: 2358.6553
Epoch 10/120
38/38 [=====] - 18s 474ms/step - loss: 1996.8799 -
val_loss: 2772.2071
Epoch 11/120
38/38 [=====] - 18s 475ms/step - loss: 2120.9365 -
val_loss: 1777.2054
Epoch 12/120
38/38 [=====] - 18s 475ms/step - loss: 1772.7014 -
val_loss: 1719.9300
Epoch 13/120
38/38 [=====] - 18s 475ms/step - loss: 1378.1606 -
val_loss: 1652.2794
Epoch 14/120
38/38 [=====] - 18s 476ms/step - loss: 1175.0570 -
val_loss: 1020.4426
Epoch 15/120
38/38 [=====] - 18s 476ms/step - loss: 706.9804 -
val_loss: 619.1844
Epoch 16/120
38/38 [=====] - 18s 475ms/step - loss: 609.6357 -
val_loss: 586.8298
Epoch 17/120
38/38 [=====] - 18s 475ms/step - loss: 587.8181 -
val_loss: 568.6620
Epoch 18/120
38/38 [=====] - 18s 474ms/step - loss: 575.8548 -
val_loss: 556.9125
Epoch 19/120
38/38 [=====] - 18s 475ms/step - loss: 568.3103 -
val_loss: 549.6444
Epoch 20/120
38/38 [=====] - 18s 474ms/step - loss: 563.5943 -
val_loss: 544.4682
Epoch 21/120
38/38 [=====] - 18s 475ms/step - loss: 559.8218 -
val_loss: 540.7111
Epoch 22/120
38/38 [=====] - 18s 474ms/step - loss: 556.8890 -
val_loss: 537.8683
Epoch 23/120
38/38 [=====] - 18s 473ms/step - loss: 554.4983 -
val_loss: 535.4387
Epoch 24/120
38/38 [=====] - 18s 473ms/step - loss: 552.4579 -
val_loss: 533.5504
Epoch 25/120
38/38 [=====] - 18s 474ms/step - loss: 550.8734 -
val_loss: 531.9087
Epoch 26/120

38/38 [=====] - 18s 473ms/step - loss: 549.2902 -
val_loss: 530.3769
Epoch 27/120
38/38 [=====] - 18s 473ms/step - loss: 547.8063 -
val_loss: 528.5820
Epoch 28/120
38/38 [=====] - 18s 473ms/step - loss: 546.0048 -
val_loss: 526.6602
Epoch 29/120
38/38 [=====] - 18s 473ms/step - loss: 542.9521 -
val_loss: 522.3162
Epoch 30/120
38/38 [=====] - 18s 473ms/step - loss: 539.0230 -
val_loss: 517.8484
Epoch 31/120
38/38 [=====] - 18s 473ms/step - loss: 535.0167 -
val_loss: 511.9824
Epoch 32/120
38/38 [=====] - 18s 473ms/step - loss: 531.3686 -
val_loss: 506.4676
Epoch 33/120
38/38 [=====] - 18s 473ms/step - loss: 528.8540 -
val_loss: 502.3049
Epoch 34/120
38/38 [=====] - 18s 473ms/step - loss: 525.4460 -
val_loss: 499.1229
Epoch 35/120
38/38 [=====] - 18s 473ms/step - loss: 524.1768 -
val_loss: 495.3695
Epoch 36/120
38/38 [=====] - 18s 474ms/step - loss: 522.2574 -
val_loss: 493.3754
Epoch 37/120
38/38 [=====] - 18s 473ms/step - loss: 520.4381 -
val_loss: 491.7827
Epoch 38/120
38/38 [=====] - 18s 474ms/step - loss: 519.9434 -
val_loss: 490.1561
Epoch 39/120
38/38 [=====] - 18s 473ms/step - loss: 518.3695 -
val_loss: 489.3925
Epoch 40/120
38/38 [=====] - 18s 473ms/step - loss: 517.8113 -
val_loss: 488.2428
Epoch 41/120
38/38 [=====] - 18s 474ms/step - loss: 516.9696 -
val_loss: 486.8628
Epoch 42/120
38/38 [=====] - 18s 473ms/step - loss: 515.5096 -
val_loss: 486.8129
Epoch 43/120
38/38 [=====] - 18s 473ms/step - loss: 515.2246 -
val_loss: 486.1176
Epoch 44/120
38/38 [=====] - 18s 474ms/step - loss: 515.0590 -
val_loss: 485.5710
Epoch 45/120
38/38 [=====] - 18s 473ms/step - loss: 514.4209 -
val_loss: 485.4127
Epoch 46/120
38/38 [=====] - 18s 473ms/step - loss: 514.2687 -
val_loss: 484.8833
Epoch 47/120

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38/38 [=====] - 18s 473ms/step - loss: 513.9033 -  
val_loss: 484.5887  
Epoch 48/120  
38/38 [=====] - 18s 472ms/step - loss: 513.6640 -  
val_loss: 484.3368  
Epoch 49/120  
38/38 [=====] - 18s 473ms/step - loss: 513.3220 -  
val_loss: 484.2049  
Epoch 50/120  
38/38 [=====] - 18s 473ms/step - loss: 513.0933 -  
val_loss: 483.9673  
Epoch 51/120  
38/38 [=====] - 18s 473ms/step - loss: 512.7595 -  
val_loss: 483.7719  
Epoch 52/120  
38/38 [=====] - 18s 473ms/step - loss: 512.5442 -  
val_loss: 483.5310  
Epoch 53/120  
38/38 [=====] - 18s 473ms/step - loss: 512.3641 -  
val_loss: 483.4311  
Epoch 54/120  
38/38 [=====] - 18s 473ms/step - loss: 512.2012 -  
val_loss: 483.3444  
Epoch 55/120  
38/38 [=====] - 18s 473ms/step - loss: 512.0423 -  
val_loss: 483.2489  
Epoch 56/120  
38/38 [=====] - 18s 473ms/step - loss: 511.8684 -  
val_loss: 483.0781  
Epoch 57/120  
38/38 [=====] - 18s 474ms/step - loss: 511.7684 -  
val_loss: 482.9095  
Epoch 58/120  
38/38 [=====] - 18s 473ms/step - loss: 511.5338 -  
val_loss: 482.9415  
Epoch 59/120  
38/38 [=====] - 18s 474ms/step - loss: 511.4925 -  
val_loss: 482.6400  
Epoch 60/120  
38/38 [=====] - 18s 473ms/step - loss: 511.3094 -  
val_loss: 482.7434  
Epoch 61/120  
38/38 [=====] - 18s 473ms/step - loss: 511.0785 -  
val_loss: 482.7562  
Epoch 62/120  
38/38 [=====] - 18s 474ms/step - loss: 511.0414 -  
val_loss: 482.4487  
Epoch 63/120  
38/38 [=====] - 18s 473ms/step - loss: 511.1376 -  
val_loss: 482.4294  
Epoch 64/120  
  
38/38 [=====] - 18s 473ms/step - loss: 510.5956 -  
val_loss: 482.7423  
Epoch 65/120  
38/38 [=====] - 18s 474ms/step - loss: 510.4240 -  
val_loss: 482.9838  
Epoch 66/120  
38/38 [=====] - 18s 473ms/step - loss: 510.5262 -  
val_loss: 483.9680  
Epoch 67/120  
38/38 [=====] - 18s 473ms/step - loss: 511.8418 -  
val_loss: 481.3995
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Epoch 68/120
38/38 [=====] - 18s 473ms/step - loss: 509.2417 -
val_loss: 482.8436
Epoch 69/120
38/38 [=====] - 18s 473ms/step - loss: 509.9621 -
val_loss: 482.6158
Epoch 70/120
38/38 [=====] - 18s 473ms/step - loss: 509.6022 -
val_loss: 482.8125
Epoch 71/120
38/38 [=====] - 18s 473ms/step - loss: 509.7249 -
val_loss: 483.1192
Epoch 72/120
38/38 [=====] - 18s 473ms/step - loss: 510.1404 -
val_loss: 481.9856
Epoch 73/120
38/38 [=====] - 18s 473ms/step - loss: 508.8694 -
val_loss: 482.8826
Epoch 74/120
38/38 [=====] - 18s 473ms/step - loss: 508.9209 -
val_loss: 484.7905
Epoch 75/120
38/38 [=====] - 18s 473ms/step - loss: 508.4919 -
val_loss: 485.6068
Epoch 76/120
38/38 [=====] - 18s 473ms/step - loss: 508.8702 -
val_loss: 483.8515
Epoch 77/120
38/38 [=====] - 18s 473ms/step - loss: 508.8205 -
val_loss: 485.7732
Epoch 78/120
38/38 [=====] - 18s 474ms/step - loss: 509.1242 -
val_loss: 487.1773
Epoch 79/120
38/38 [=====] - 18s 475ms/step - loss: 507.9530 -
val_loss: 485.8593
Epoch 80/120
38/38 [=====] - 18s 473ms/step - loss: 508.9524 -
val_loss: 486.6902
Epoch 81/120
38/38 [=====] - 18s 474ms/step - loss: 508.1845 -
val_loss: 488.4274
Epoch 82/120
38/38 [=====] - 18s 473ms/step - loss: 509.6337 -
val_loss: 485.9345
Epoch 83/120
38/38 [=====] - 18s 473ms/step - loss: 511.1386 -
val_loss: 485.1741
Epoch 84/120
38/38 [=====] - 18s 473ms/step - loss: 508.7213 -
val_loss: 486.0553
Epoch 85/120
38/38 [=====] - 18s 475ms/step - loss: 506.9876 -
val_loss: 488.1145
Epoch 86/120
38/38 [=====] - 18s 474ms/step - loss: 509.0599 -
val_loss: 486.5662
Epoch 87/120
38/38 [=====] - 18s 473ms/step - loss: 507.0612 -
val_loss: 489.9336
Epoch 88/120
38/38 [=====] - 18s 474ms/step - loss: 506.7337 -
val_loss: 490.9123
Epoch 89/120

38/38 [=====] - 18s 473ms/step - loss: 507.5177 -
val_loss: 494.0043
Epoch 90/120
38/38 [=====] - 18s 473ms/step - loss: 506.9106 -
val_loss: 493.9304
Epoch 91/120
38/38 [=====] - 18s 473ms/step - loss: 508.8321 -
val_loss: 507.6470
Epoch 92/120
38/38 [=====] - 18s 474ms/step - loss: 509.4220 -
val_loss: 494.3365
Epoch 93/120
38/38 [=====] - 18s 473ms/step - loss: 509.3824 -
val_loss: 488.0644
Epoch 94/120
38/38 [=====] - 18s 473ms/step - loss: 508.9795 -
val_loss: 486.9629
Epoch 95/120
38/38 [=====] - 18s 473ms/step - loss: 507.6677 -
val_loss: 487.3563
Epoch 96/120
38/38 [=====] - 18s 473ms/step - loss: 507.5512 -
val_loss: 490.0829
Epoch 97/120
38/38 [=====] - 18s 473ms/step - loss: 507.8137 -
val_loss: 488.5135
Epoch 98/120
38/38 [=====] - 18s 473ms/step - loss: 507.4993 -
val_loss: 488.2687
Epoch 99/120
38/38 [=====] - 18s 474ms/step - loss: 507.4619 -
val_loss: 488.3134
Epoch 100/120
38/38 [=====] - 18s 473ms/step - loss: 507.9032 -
val_loss: 491.8123
Epoch 101/120
38/38 [=====] - 18s 474ms/step - loss: 507.6186 -
val_loss: 488.6852
Epoch 102/120
38/38 [=====] - 18s 473ms/step - loss: 506.2759 -
val_loss: 488.1297
Epoch 103/120
38/38 [=====] - 18s 474ms/step - loss: 507.1150 -
val_loss: 491.1396
Epoch 104/120
38/38 [=====] - 18s 473ms/step - loss: 507.1252 -
val_loss: 489.0118
Epoch 105/120
38/38 [=====] - 18s 473ms/step - loss: 506.4103 -
val_loss: 493.6816
Epoch 106/120
38/38 [=====] - 18s 473ms/step - loss: 507.1292 -
val_loss: 494.6474
Epoch 107/120
38/38 [=====] - 18s 473ms/step - loss: 507.2687 -
val_loss: 486.8604
Epoch 108/120
38/38 [=====] - 18s 473ms/step - loss: 505.9425 -
val_loss: 490.7573
Epoch 109/120
38/38 [=====] - 18s 472ms/step - loss: 506.0723 -
val_loss: 494.0754
Epoch 110/120

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38/38 [=====] - 18s 473ms/step - loss: 505.5880 -  
val_loss: 492.3266  
Epoch 111/120  
38/38 [=====] - 18s 473ms/step - loss: 506.0578 -  
val_loss: 492.4298  
Epoch 112/120  
38/38 [=====] - 18s 473ms/step - loss: 506.1561 -  
val_loss: 497.2045  
Epoch 113/120  
38/38 [=====] - 18s 474ms/step - loss: 505.6367 -  
val_loss: 493.3698  
Epoch 114/120  
38/38 [=====] - 18s 474ms/step - loss: 505.5325 -  
val_loss: 496.5630  
Epoch 115/120  
38/38 [=====] - 18s 473ms/step - loss: 504.8647 -  
val_loss: 498.2000  
Epoch 116/120  
38/38 [=====] - 18s 473ms/step - loss: 504.9654 -  
val_loss: 497.3600  
Epoch 117/120  
38/38 [=====] - 18s 473ms/step - loss: 505.0195 -  
val_loss: 500.6877  
Epoch 118/120  
38/38 [=====] - 18s 473ms/step - loss: 505.3353 -  
val_loss: 500.7131  
Epoch 119/120  
38/38 [=====] - 18s 473ms/step - loss: 505.1835 -  
val_loss: 498.4188  
Epoch 120/120  
38/38 [=====] - 18s 473ms/step - loss: 505.9304 -  
val_loss: 496.7832
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