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W0802 14:48:34.981591 23232 deprecation_wrapper.py:119] From C:\Users\Yesser\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:74: The name tf.get_default_graph is deprecated. Please use tf.compat.v1.get_default_graph instead.

W0802 14:48:34.981591 23232 deprecation_wrapper.py:119] From C:\Users\Yesser\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:517: The name tf.placeholder is deprecated. Please use tf.compat.v1.placeholder instead.

W0802 14:48:34.981591 23232 deprecation_wrapper.py:119] From C:\Users\Yesser\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:4138: The name tf.random_uniform is deprecated. Please use tf.random.uniform instead.

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	Bearing 1	Bearing 2	Bearing 3	Bearing 4
2004-02-12 10:32:39	0.058333	0.071832	0.083242	0.043067
2004-02-12 10:42:39	0.058995	0.074006	0.084435	0.044541
2004-02-12 10:52:39	0.060236	0.074227	0.083926	0.044443
2004-02-12 11:02:39	0.061455	0.073844	0.084457	0.045081
2004-02-12 11:12:39	0.061361	0.075609	0.082837	0.045118

Layer (type)	Output Shape	Param #
=====		
input_1 (InputLayer)	(None, 4)	0
dense_1 (Dense)	(None, 32)	160
dense_2 (Dense)	(None, 16)	528
dense_3 (Dense)	(None, 16)	272
dense_4 (Dense)	(None, 4)	68

W0802 14:48:35.040623 23232 deprecation_wrapper.py:119] From C:\Users\Yesser\Anaconda3\lib\site-packages\keras\optimizers.py:790: The name tf.train.Optimizer is deprecated. Please use tf.compat.v1.train.Optimizer instead.

W0802 14:48:35.139214 23232 deprecation_wrapper.py:119] From C:\Users\Yesser\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:986: The name tf.assign_add is deprecated. Please use tf.compat.v1.assign_add instead.

=====
 Total params: 1,028
 Trainable params: 1,028
 Non-trainable params: 0

Train on 213 samples, validate on 12 samples

Epoch 1/100
213/213 [=====] - 0s 1ms/step - loss: 0.0712 - acc: 0.1925 -
val_loss: 0.0132 - val_acc: 0.1667

Epoch 2/100
213/213 [=====] - 0s 117us/step - loss: 0.0163 - acc: 0.6432 -
val_loss: 0.0139 - val_acc: 0.1667

Epoch 3/100
213/213 [=====] - 0s 92us/step - loss: 0.0091 - acc: 0.6995 -
val_loss: 0.0078 - val_acc: 0.1667

Epoch 4/100
213/213 [=====] - 0s 115us/step - loss: 0.0062 - acc: 0.7653 -
val_loss: 0.0061 - val_acc: 0.3333

Epoch 5/100
213/213 [=====] - 0s 119us/step - loss: 0.0043 - acc: 0.7653 -
val_loss: 0.0054 - val_acc: 0.3333

Epoch 6/100
213/213 [=====] - 0s 118us/step - loss: 0.0032 - acc: 0.7887 -
val_loss: 0.0042 - val_acc: 0.3333

Epoch 7/100
213/213 [=====] - 0s 78us/step - loss: 0.0025 - acc: 0.8216 -
val_loss: 0.0031 - val_acc: 0.3333

Epoch 8/100
213/213 [=====] - 0s 81us/step - loss: 0.0020 - acc: 0.8779 -
val_loss: 0.0038 - val_acc: 0.3333

Epoch 9/100
213/213 [=====] - 0s 78us/step - loss: 0.0016 - acc: 0.8685 -
val_loss: 0.0022 - val_acc: 0.4167

Epoch 10/100
213/213 [=====] - 0s 83us/step - loss: 0.0013 - acc: 0.8873 -
val_loss: 0.0021 - val_acc: 0.4167

Epoch 11/100
213/213 [=====] - 0s 93us/step - loss: 0.0011 - acc: 0.9014 -
val_loss: 0.0010 - val_acc: 0.6667

Epoch 12/100
213/213 [=====] - 0s 94us/step - loss: 8.6308e-04 - acc: 0.9108 -
val_loss: 0.0014 - val_acc: 0.5833

Epoch 13/100
213/213 [=====] - 0s 87us/step - loss: 6.5105e-04 - acc: 0.9202 -
val_loss: 0.0010 - val_acc: 0.7500

Epoch 14/100
213/213 [=====] - 0s 69us/step - loss: 5.7188e-04 - acc: 0.9531 -
val_loss: 5.7413e-04 - val_acc: 0.8333

Epoch 15/100
213/213 [=====] - 0s 80us/step - loss: 4.3372e-04 - acc: 0.9343 -
val_loss: 4.4352e-04 - val_acc: 0.8333

Epoch 16/100
213/213 [=====] - 0s 77us/step - loss: 3.4724e-04 - acc: 0.9531 -
val_loss: 2.8174e-04 - val_acc: 0.8333

Epoch 17/100
213/213 [=====] - 0s 76us/step - loss: 2.8194e-04 - acc: 0.9671 -
val_loss: 1.4795e-04 - val_acc: 0.9167

Epoch 18/100
213/213 [=====] - 0s 61us/step - loss: 2.3720e-04 - acc: 0.9671 -
val_loss: 1.9359e-04 - val_acc: 0.9167

Epoch 19/100
213/213 [=====] - 0s 95us/step - loss: 2.2164e-04 - acc: 0.9718 -
val_loss: 8.9373e-05 - val_acc: 0.9167

Epoch 20/100
213/213 [=====] - 0s 78us/step - loss: 1.8294e-04 - acc: 0.9671 -
val_loss: 7.9647e-05 - val_acc: 1.0000
Epoch 21/100
213/213 [=====] - 0s 89us/step - loss: 1.6437e-04 - acc: 0.9671 -
val_loss: 9.1540e-05 - val_acc: 0.9167
Epoch 22/100
213/213 [=====] - 0s 78us/step - loss: 1.4295e-04 - acc: 0.9765 -
val_loss: 4.3652e-05 - val_acc: 1.0000
Epoch 23/100
213/213 [=====] - 0s 87us/step - loss: 1.3264e-04 - acc: 0.9859 -
val_loss: 6.1750e-05 - val_acc: 1.0000
Epoch 24/100
213/213 [=====] - 0s 74us/step - loss: 1.3063e-04 - acc: 0.9718 -
val_loss: 8.0482e-05 - val_acc: 1.0000
Epoch 25/100
213/213 [=====] - 0s 59us/step - loss: 1.1520e-04 - acc: 0.9812 -
val_loss: 5.3266e-05 - val_acc: 1.0000
Epoch 26/100
213/213 [=====] - 0s 83us/step - loss: 1.1196e-04 - acc: 0.9812 -
val_loss: 4.4906e-05 - val_acc: 1.0000
Epoch 27/100
213/213 [=====] - 0s 116us/step - loss: 1.0464e-04 - acc: 0.9859 -
val_loss: 5.7432e-05 - val_acc: 1.0000
Epoch 28/100
213/213 [=====] - 0s 78us/step - loss: 1.0574e-04 - acc: 0.9765 -
val_loss: 5.0378e-05 - val_acc: 1.0000
Epoch 29/100
213/213 [=====] - 0s 88us/step - loss: 9.7949e-05 - acc: 0.9718 -
val_loss: 5.9725e-05 - val_acc: 1.0000
Epoch 30/100
213/213 [=====] - 0s 95us/step - loss: 9.5335e-05 - acc: 0.9812 -
val_loss: 5.3440e-05 - val_acc: 1.0000
Epoch 31/100
213/213 [=====] - 0s 92us/step - loss: 9.3548e-05 - acc: 0.9765 -
val_loss: 5.5996e-05 - val_acc: 1.0000
Epoch 32/100
213/213 [=====] - 0s 74us/step - loss: 8.4809e-05 - acc: 0.9812 -
val_loss: 5.9954e-05 - val_acc: 1.0000
Epoch 33/100
213/213 [=====] - 0s 78us/step - loss: 9.0218e-05 - acc: 0.9765 -
val_loss: 5.1862e-05 - val_acc: 1.0000
Epoch 34/100
213/213 [=====] - 0s 49us/step - loss: 8.2155e-05 - acc: 0.9859 -
val_loss: 8.0360e-05 - val_acc: 1.0000
Epoch 35/100
213/213 [=====] - 0s 78us/step - loss: 8.2983e-05 - acc: 0.9812 -
val_loss: 5.6963e-05 - val_acc: 1.0000
Epoch 36/100
213/213 [=====] - 0s 78us/step - loss: 7.6377e-05 - acc: 0.9859 -
val_loss: 5.4954e-05 - val_acc: 1.0000
Epoch 37/100
213/213 [=====] - 0s 103us/step - loss: 8.4339e-05 - acc: 0.9859 -
val_loss: 6.3340e-05 - val_acc: 1.0000
Epoch 38/100
213/213 [=====] - 0s 88us/step - loss: 7.8866e-05 - acc: 0.9765 -
val_loss: 4.9992e-05 - val_acc: 1.0000
Epoch 39/100
213/213 [=====] - 0s 84us/step - loss: 8.5681e-05 - acc: 0.9765 -

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val_loss: 8.8050e-05 - val_acc: 1.0000
Epoch 40/100
213/213 [=====] - 0s 93us/step - loss: 8.0483e-05 - acc: 0.9718 -
val_loss: 7.2359e-05 - val_acc: 1.0000
Epoch 41/100
213/213 [=====] - 0s 57us/step - loss: 8.4459e-05 - acc: 0.9812 -
val_loss: 4.6618e-05 - val_acc: 1.0000
Epoch 42/100
213/213 [=====] - 0s 84us/step - loss: 6.9312e-05 - acc: 0.9859 -
val_loss: 7.3333e-05 - val_acc: 0.9167
Epoch 43/100
213/213 [=====] - 0s 93us/step - loss: 7.9466e-05 - acc: 0.9765 -
val_loss: 4.7595e-05 - val_acc: 1.0000
Epoch 44/100
213/213 [=====] - 0s 92us/step - loss: 7.3494e-05 - acc: 0.9718 -
val_loss: 6.6622e-05 - val_acc: 1.0000
Epoch 45/100
213/213 [=====] - 0s 72us/step - loss: 6.9147e-05 - acc: 0.9671 -
val_loss: 5.2876e-05 - val_acc: 1.0000
Epoch 46/100
213/213 [=====] - 0s 57us/step - loss: 6.7579e-05 - acc: 0.9671 -
val_loss: 7.4503e-05 - val_acc: 1.0000
Epoch 47/100
213/213 [=====] - 0s 47us/step - loss: 7.4972e-05 - acc: 0.9718 -
val_loss: 1.1075e-04 - val_acc: 1.0000
Epoch 48/100
213/213 [=====] - 0s 79us/step - loss: 7.3244e-05 - acc: 0.9859 -
val_loss: 6.0223e-05 - val_acc: 1.0000
Epoch 49/100
213/213 [=====] - 0s 102us/step - loss: 7.6752e-05 - acc: 0.9765 -
val_loss: 7.9657e-05 - val_acc: 1.0000
Epoch 50/100
213/213 [=====] - 0s 90us/step - loss: 8.2313e-05 - acc: 0.9812 -
val_loss: 1.1684e-04 - val_acc: 0.9167
Epoch 51/100
213/213 [=====] - 0s 77us/step - loss: 9.0986e-05 - acc: 0.9671 -
val_loss: 5.2471e-05 - val_acc: 1.0000
Epoch 52/100
213/213 [=====] - 0s 84us/step - loss: 6.8352e-05 - acc: 0.9671 -
val_loss: 7.2159e-05 - val_acc: 1.0000
Epoch 53/100
213/213 [=====] - 0s 93us/step - loss: 6.4182e-05 - acc: 0.9765 -
val_loss: 5.1518e-05 - val_acc: 1.0000
Epoch 54/100
213/213 [=====] - 0s 78us/step - loss: 6.3203e-05 - acc: 0.9812 -
val_loss: 4.5283e-05 - val_acc: 1.0000
Epoch 55/100
213/213 [=====] - 0s 104us/step - loss: 5.9314e-05 - acc: 0.9671 -
val_loss: 5.4470e-05 - val_acc: 1.0000
Epoch 56/100
213/213 [=====] - 0s 80us/step - loss: 7.2981e-05 - acc: 0.9812 -
val_loss: 5.2795e-05 - val_acc: 1.0000
Epoch 57/100
213/213 [=====] - 0s 84us/step - loss: 6.7029e-05 - acc: 0.9718 -
val_loss: 1.0133e-04 - val_acc: 0.9167
Epoch 58/100
213/213 [=====] - 0s 93us/step - loss: 7.2652e-05 - acc: 0.9812 -
val_loss: 7.1019e-05 - val_acc: 1.0000
Epoch 59/100

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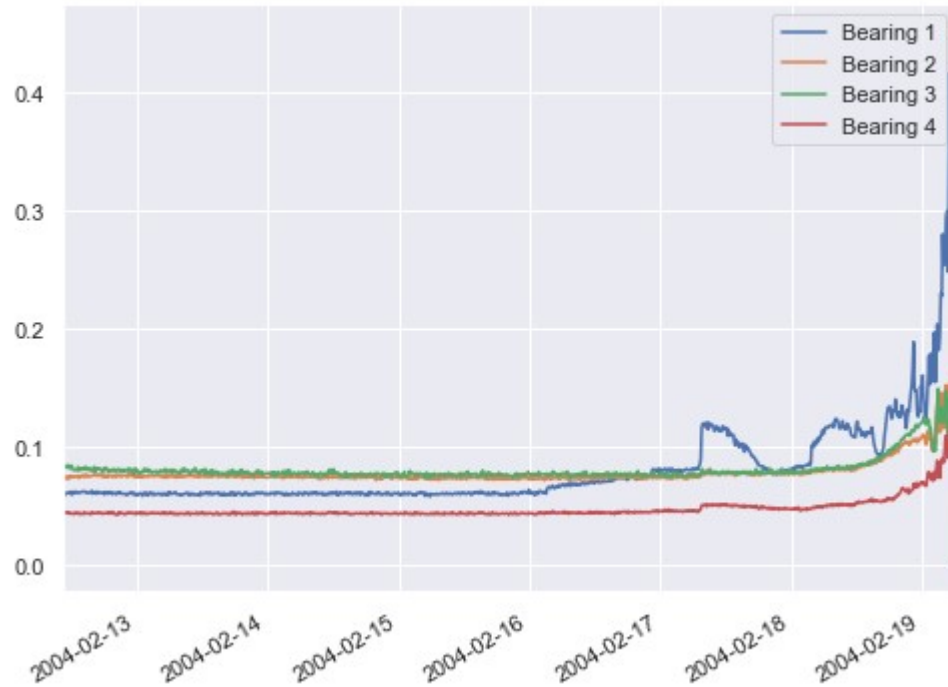

213/213 [=====] - 0s 95us/step - loss: 6.2514e-05 - acc: 0.9765 -
 val_loss: 5.4180e-05 - val_acc: 1.0000
 Epoch 60/100
 213/213 [=====] - 0s 77us/step - loss: 6.5197e-05 - acc: 0.9671 -
 val_loss: 4.0187e-05 - val_acc: 1.0000
 Epoch 61/100
 213/213 [=====] - 0s 66us/step - loss: 8.1692e-05 - acc: 0.9812 -
 val_loss: 1.1810e-04 - val_acc: 1.0000
 Epoch 62/100
 213/213 [=====] - 0s 81us/step - loss: 7.2023e-05 - acc: 0.9624 -
 val_loss: 5.7003e-05 - val_acc: 0.9167
 Epoch 63/100
 213/213 [=====] - 0s 74us/step - loss: 6.4792e-05 - acc: 0.9812 -
 val_loss: 4.5533e-05 - val_acc: 1.0000
 Epoch 64/100
 213/213 [=====] - 0s 80us/step - loss: 5.6274e-05 - acc: 0.9812 -
 val_loss: 4.2033e-05 - val_acc: 1.0000
 Epoch 65/100
 213/213 [=====] - 0s 61us/step - loss: 5.3427e-05 - acc: 0.9859 -
 val_loss: 4.5497e-05 - val_acc: 1.0000
 Epoch 66/100
 213/213 [=====] - 0s 76us/step - loss: 5.7775e-05 - acc: 0.9718 -
 val_loss: 3.6424e-05 - val_acc: 1.0000
 Epoch 67/100
 213/213 [=====] - 0s 102us/step - loss: 6.2063e-05 - acc: 0.9718 -
 val_loss: 4.9050e-05 - val_acc: 0.9167
 Epoch 68/100
 213/213 [=====] - 0s 90us/step - loss: 5.3514e-05 - acc: 0.9812 -
 val_loss: 4.7863e-05 - val_acc: 1.0000
 Epoch 69/100
 213/213 [=====] - 0s 78us/step - loss: 5.6029e-05 - acc: 0.9718 -
 val_loss: 4.9731e-05 - val_acc: 1.0000
 Epoch 70/100
 213/213 [=====] - 0s 83us/step - loss: 5.2057e-05 - acc: 0.9812 -
 val_loss: 3.9922e-05 - val_acc: 1.0000
 Epoch 71/100
 213/213 [=====] - 0s 95us/step - loss: 5.2735e-05 - acc: 0.9718 -
 val_loss: 3.6075e-05 - val_acc: 1.0000
 Epoch 72/100
 213/213 [=====] - 0s 95us/step - loss: 5.1728e-05 - acc: 0.9718 -
 val_loss: 4.2200e-05 - val_acc: 1.0000
 Epoch 73/100
 213/213 [=====] - 0s 87us/step - loss: 5.1073e-05 - acc: 0.9765 -
 val_loss: 3.6881e-05 - val_acc: 1.0000
 Epoch 74/100
 213/213 [=====] - 0s 95us/step - loss: 5.3682e-05 - acc: 0.9765 -
 val_loss: 3.9113e-05 - val_acc: 1.0000
 Epoch 75/100
 213/213 [=====] - 0s 93us/step - loss: 5.6612e-05 - acc: 0.9906 -
 val_loss: 4.5268e-05 - val_acc: 1.0000
 Epoch 76/100
 213/213 [=====] - 0s 72us/step - loss: 6.9558e-05 - acc: 0.9765 -
 val_loss: 4.5650e-05 - val_acc: 1.0000
 Epoch 77/100
 213/213 [=====] - 0s 79us/step - loss: 6.1474e-05 - acc: 0.9906 -
 val_loss: 5.0303e-05 - val_acc: 1.0000
 Epoch 78/100
 213/213 [=====] - 0s 84us/step - loss: 5.7964e-05 - acc: 0.9812 -
 val_loss: 5.7349e-05 - val_acc: 1.0000

Epoch 79/100
213/213 [=====] - 0s 78us/step - loss: 6.0727e-05 - acc: 0.9812 -
val_loss: 4.5142e-05 - val_acc: 1.0000
Epoch 80/100
213/213 [=====] - 0s 78us/step - loss: 5.0168e-05 - acc: 0.9765 -
val_loss: 4.4044e-05 - val_acc: 1.0000
Epoch 81/100
213/213 [=====] - 0s 87us/step - loss: 5.1892e-05 - acc: 0.9812 -
val_loss: 3.1893e-05 - val_acc: 1.0000
Epoch 82/100
213/213 [=====] - 0s 79us/step - loss: 4.4849e-05 - acc: 0.9812 -
val_loss: 3.1178e-05 - val_acc: 1.0000
Epoch 83/100
213/213 [=====] - 0s 86us/step - loss: 4.4359e-05 - acc: 0.9718 -
val_loss: 3.5720e-05 - val_acc: 1.0000
Epoch 84/100
213/213 [=====] - 0s 114us/step - loss: 4.9446e-05 - acc: 0.9812 -
val_loss: 6.2380e-05 - val_acc: 1.0000
Epoch 85/100
213/213 [=====] - 0s 105us/step - loss: 4.6592e-05 - acc: 0.9859 -
val_loss: 3.2333e-05 - val_acc: 1.0000
Epoch 86/100
213/213 [=====] - 0s 88us/step - loss: 4.5970e-05 - acc: 0.9765 -
val_loss: 3.4559e-05 - val_acc: 1.0000
Epoch 87/100
213/213 [=====] - 0s 78us/step - loss: 3.9591e-05 - acc: 0.9812 -
val_loss: 4.0575e-05 - val_acc: 1.0000
Epoch 88/100
213/213 [=====] - 0s 120us/step - loss: 4.4135e-05 - acc: 0.9812 -
val_loss: 5.6562e-05 - val_acc: 1.0000
Epoch 89/100
213/213 [=====] - 0s 79us/step - loss: 4.1171e-05 - acc: 0.9812 -
val_loss: 2.4616e-05 - val_acc: 1.0000
Epoch 90/100
213/213 [=====] - 0s 110us/step - loss: 4.5897e-05 - acc: 0.9718 -
val_loss: 5.0599e-05 - val_acc: 0.9167
Epoch 91/100
213/213 [=====] - 0s 84us/step - loss: 4.4603e-05 - acc: 0.9765 -
val_loss: 5.9225e-05 - val_acc: 0.9167
Epoch 92/100
213/213 [=====] - 0s 76us/step - loss: 4.9512e-05 - acc: 0.9718 -
val_loss: 2.4421e-05 - val_acc: 1.0000
Epoch 93/100
213/213 [=====] - 0s 85us/step - loss: 4.2515e-05 - acc: 0.9812 -
val_loss: 3.3003e-05 - val_acc: 1.0000
Epoch 94/100
213/213 [=====] - 0s 112us/step - loss: 4.3251e-05 - acc: 0.9765 -
val_loss: 3.7739e-05 - val_acc: 1.0000
Epoch 95/100
213/213 [=====] - 0s 102us/step - loss: 4.0614e-05 - acc: 0.9906 -
val_loss: 4.7923e-05 - val_acc: 1.0000
Epoch 96/100
213/213 [=====] - 0s 90us/step - loss: 5.8748e-05 - acc: 0.9765 -
val_loss: 5.3504e-05 - val_acc: 1.0000
Epoch 97/100
213/213 [=====] - 0s 81us/step - loss: 4.9426e-05 - acc: 0.9718 -
val_loss: 3.9967e-05 - val_acc: 1.0000
Epoch 98/100
213/213 [=====] - 0s 84us/step - loss: 4.0296e-05 - acc: 0.9718 -

```

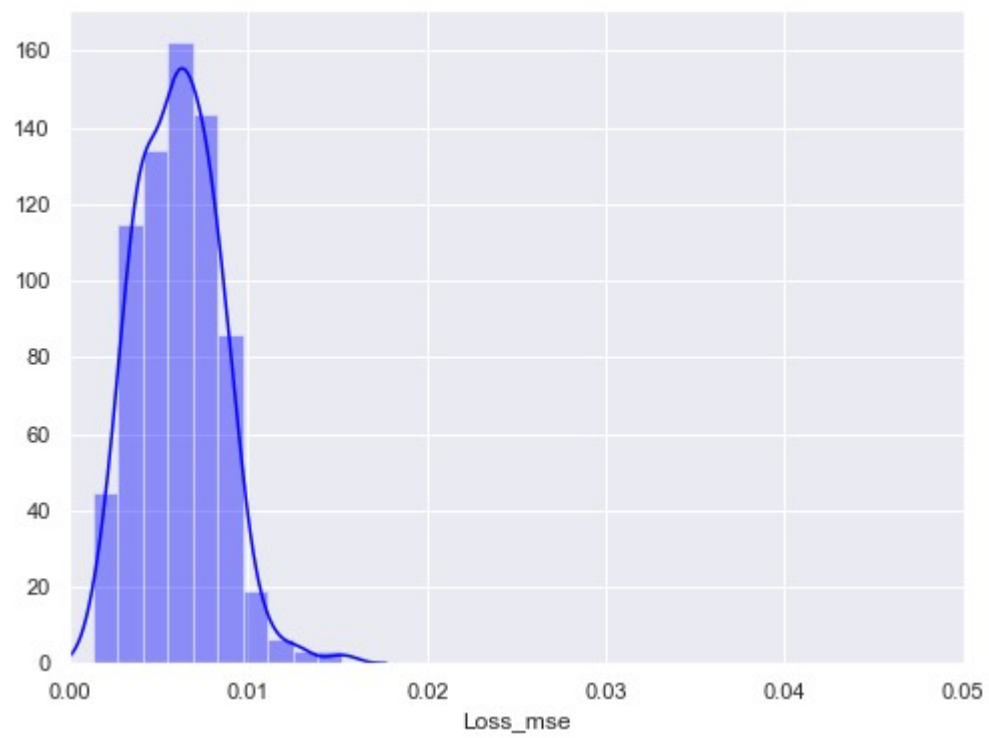
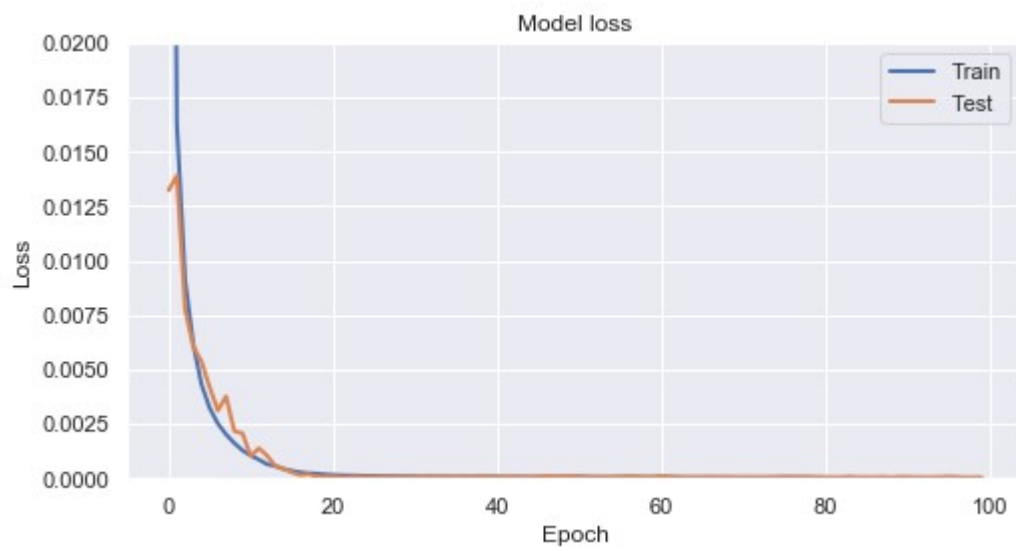
val_loss: 3.0664e-05 - val_acc: 1.0000
Epoch 99/100
213/213 [=====] - 0s 114us/step - loss: 3.8806e-05 - acc: 0.9765 -
val_loss: 3.8330e-05 - val_acc: 1.0000
Epoch 100/100
213/213 [=====] - 0s 77us/step - loss: 4.1924e-05 - acc: 0.9812 -
val_loss: 4.6852e-05 - val_acc: 1.0000

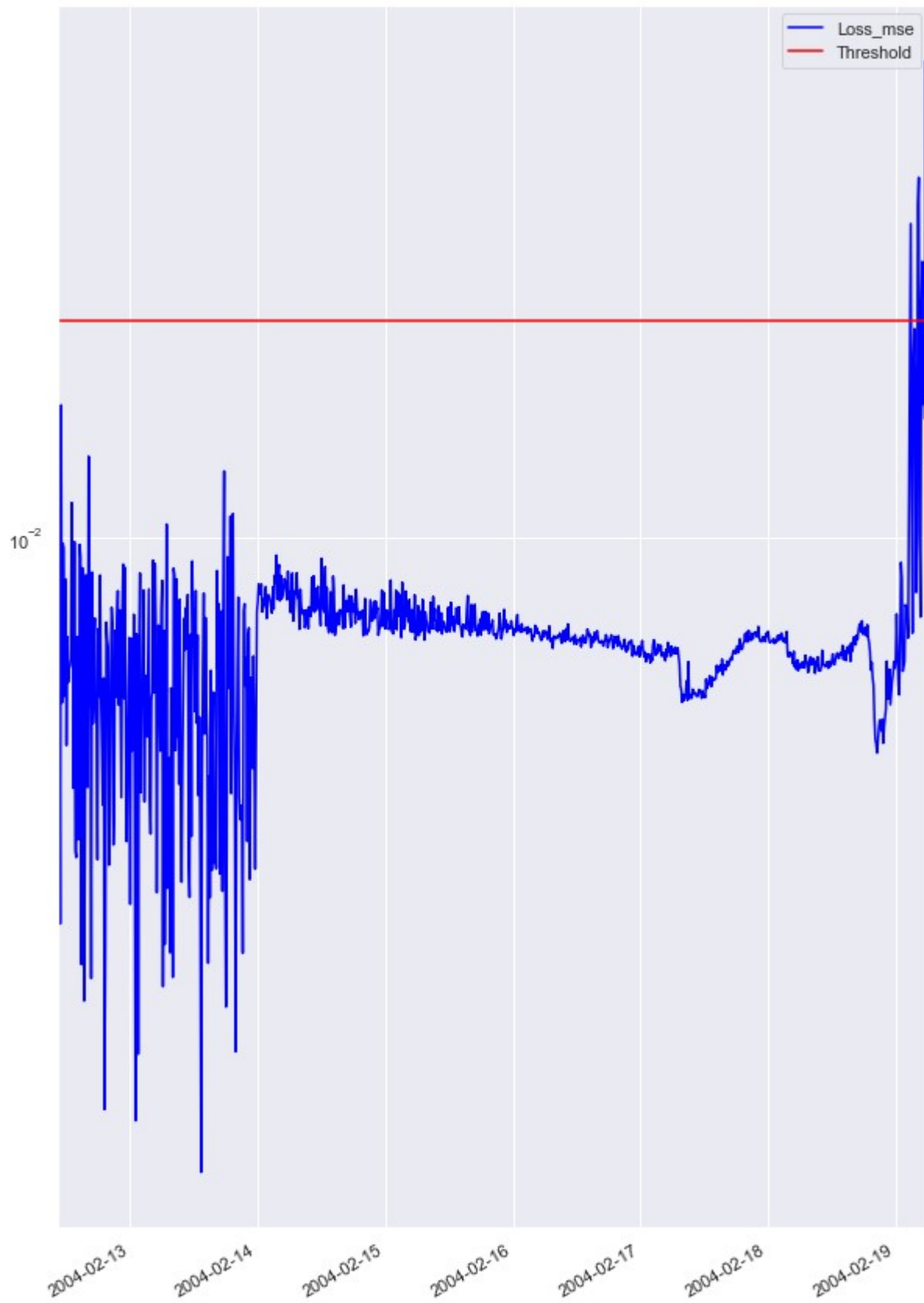
```



<Figure size 720x504 with 0 Axes>







In [16]: