MinMaxScaler(copy=True, feature\_range=(0, 1))

WARNING:tensorflow:From C:\Users\user\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.

Train on 58950 samples, validate on 19650 samples

Epoch 1/100

- 2s - loss: 0.0194 - acc: 0.8389 - val\_loss: 0.0025 - val\_acc: 0.8687

Epoch 2/100

- 1s - loss: 0.0015 - acc: 0.8770 - val\_loss: 0.0011 - val\_acc: 0.9097

Epoch 3/100

- 1s - loss: 9.4873e-04 - acc: 0.9055 - val\_loss: 8.8640e-04 - val\_acc: 0.9111

Epoch 4/100

- 1s - loss: 7.8548e-04 - acc: 0.9135 - val\_loss: 7.7923e-04 - val\_acc: 0.8910

Epoch 5/100

- 1s - loss: 6.9055e-04 - acc: 0.9143 - val\_loss: 7.0032e-04 - val\_acc: 0.9160

Epoch 6/100

- 1s - loss: 6.1888e-04 - acc: 0.9176 - val\_loss: 6.4421e-04 - val\_acc: 0.9195

Epoch 7/100

- 1s - loss: 5.6637e-04 - acc: 0.9174 - val\_loss: 5.8478e-04 - val\_acc: 0.9228

Epoch 8/100

- 1s - loss: 5.1794e-04 - acc: 0.9168 - val\_loss: 5.5299e-04 - val\_acc: 0.9342

Epoch 9/100

- 1s - loss: 4.7684e-04 - acc: 0.9032 - val\_loss: 4.9762e-04 - val\_acc: 0.8798

Epoch 10/100

- 1s - loss: 4.4384e-04 - acc: 0.8950 - val\_loss: 4.8465e-04 - val\_acc: 0.8844

Epoch 11/100

- 1s - loss: 4.1788e-04 - acc: 0.8890 - val\_loss: 4.3760e-04 - val\_acc: 0.9021

Epoch 12/100

- 1s - loss: 3.8960e-04 - acc: 0.8949 - val\_loss: 4.1227e-04 - val\_acc: 0.9061

Epoch 13/100

- 1s - loss: 3.6708e-04 - acc: 0.8983 - val\_loss: 3.9829e-04 - val\_acc: 0.9056

Epoch 14/100

- 1s - loss: 3.5265e-04 - acc: 0.8909 - val\_loss: 3.8598e-04 - val\_acc: 0.9094

Epoch 15/100

- 1s - loss: 3.4137e-04 - acc: 0.8972 - val\_loss: 3.6548e-04 - val\_acc: 0.9031

Epoch 16/100

- 1s - loss: 3.2782e-04 - acc: 0.8976 - val\_loss: 3.5901e-04 - val\_acc: 0.8983

Epoch 17/100

- 1s - loss: 3.1640e-04 - acc: 0.8981 - val\_loss: 3.5187e-04 - val\_acc: 0.8428

Epoch 18/100

- 1s - loss: 3.0822e-04 - acc: 0.8992 - val\_loss: 3.4503e-04 - val\_acc: 0.8965

Epoch 19/100

- 1s - loss: 3.0325e-04 - acc: 0.8983 - val\_loss: 3.3539e-04 - val\_acc: 0.8934

Epoch 20/100

- 1s - loss: 2.9600e-04 - acc: 0.8968 - val\_loss: 3.2539e-04 - val\_acc: 0.8878

Epoch 21/100

- 1s - loss: 2.9023e-04 - acc: 0.8917 - val\_loss: 3.1915e-04 - val\_acc: 0.8356

Epoch 22/100

- 1s - loss: 2.8468e-04 - acc: 0.8947 - val\_loss: 3.2470e-04 - val\_acc: 0.8639

Epoch 23/100

- 1s - loss: 2.7744e-04 - acc: 0.9014 - val\_loss: 3.1428e-04 - val\_acc: 0.9051

Epoch 24/100

- 1s - loss: 2.7574e-04 - acc: 0.8962 - val\_loss: 3.2065e-04 - val\_acc: 0.8949

Epoch 25/100

- 1s - loss: 2.6953e-04 - acc: 0.9030 - val\_loss: 3.0632e-04 - val\_acc: 0.9088

Epoch 26/100

- 1s - loss: 2.6521e-04 - acc: 0.9003 - val\_loss: 2.9996e-04 - val\_acc: 0.9091

Epoch 27/100

- 1s - loss: 2.6370e-04 - acc: 0.8996 - val\_loss: 2.8724e-04 - val\_acc: 0.9050

Epoch 28/100

- 1s - loss: 2.5924e-04 - acc: 0.9017 - val\_loss: 2.8161e-04 - val\_acc: 0.8960

Epoch 29/100

- 1s - loss: 2.5506e-04 - acc: 0.9028 - val\_loss: 2.9022e-04 - val\_acc: 0.8858

Epoch 30/100

- 1s - loss: 2.4991e-04 - acc: 0.8953 - val\_loss: 2.8135e-04 - val\_acc: 0.8857

Epoch 31/100

- 1s - loss: 2.5491e-04 - acc: 0.9016 - val\_loss: 2.9033e-04 - val\_acc: 0.8975

Epoch 32/100

- 1s - loss: 2.4725e-04 - acc: 0.8958 - val\_loss: 2.9059e-04 - val\_acc: 0.9128

Epoch 33/100

- 1s - loss: 2.4520e-04 - acc: 0.9026 - val\_loss: 2.7892e-04 - val\_acc: 0.9069

Epoch 34/100

- 1s - loss: 2.4119e-04 - acc: 0.9055 - val\_loss: 2.7555e-04 - val\_acc: 0.9081

Epoch 35/100

- 1s - loss: 2.3826e-04 - acc: 0.9036 - val\_loss: 2.7837e-04 - val\_acc: 0.9027

Epoch 36/100

- 1s - loss: 2.3763e-04 - acc: 0.8990 - val\_loss: 2.6809e-04 - val\_acc: 0.9074

Epoch 37/100

- 1s - loss: 2.3368e-04 - acc: 0.8968 - val\_loss: 2.6190e-04 - val\_acc: 0.9067

Epoch 38/100

- 1s - loss: 2.3264e-04 - acc: 0.9066 - val\_loss: 2.7709e-04 - val\_acc: 0.9060

Epoch 39/100

- 1s - loss: 2.3395e-04 - acc: 0.9013 - val\_loss: 2.7523e-04 - val\_acc: 0.9153

Epoch 40/100

- 1s - loss: 2.2927e-04 - acc: 0.9091 - val\_loss: 2.6473e-04 - val\_acc: 0.9047

Epoch 41/100

- 1s - loss: 2.2716e-04 - acc: 0.9081 - val\_loss: 2.5606e-04 - val\_acc: 0.9141

Epoch 42/100

- 1s - loss: 2.2506e-04 - acc: 0.9037 - val\_loss: 2.4595e-04 - val\_acc: 0.9007

Epoch 43/100

- 1s - loss: 2.2381e-04 - acc: 0.9065 - val\_loss: 2.6309e-04 - val\_acc: 0.9005

Epoch 44/100

- 1s - loss: 2.2575e-04 - acc: 0.9022 - val\_loss: 2.5601e-04 - val\_acc: 0.8882

Epoch 45/100

- 1s - loss: 2.1993e-04 - acc: 0.9064 - val\_loss: 2.5424e-04 - val\_acc: 0.5940

Epoch 46/100

- 1s - loss: 2.1928e-04 - acc: 0.9036 - val\_loss: 2.6755e-04 - val\_acc: 0.9129

Epoch 47/100

- 1s - loss: 2.2353e-04 - acc: 0.9044 - val\_loss: 2.4892e-04 - val\_acc: 0.8950

Epoch 48/100

- 1s - loss: 2.1434e-04 - acc: 0.9080 - val\_loss: 2.6687e-04 - val\_acc: 0.9103

Epoch 49/100

- 1s - loss: 2.1470e-04 - acc: 0.9080 - val\_loss: 2.4263e-04 - val\_acc: 0.9078

Epoch 50/100

- 1s - loss: 2.1847e-04 - acc: 0.9056 - val\_loss: 2.6070e-04 - val\_acc: 0.9136

Epoch 51/100

- 1s - loss: 2.1447e-04 - acc: 0.9011 - val\_loss: 2.4984e-04 - val\_acc: 0.9187

Epoch 52/100

- 1s - loss: 2.1168e-04 - acc: 0.9063 - val\_loss: 2.6366e-04 - val\_acc: 0.8937

Epoch 53/100

- 1s - loss: 2.1335e-04 - acc: 0.9082 - val\_loss: 2.4175e-04 - val\_acc: 0.9189

Epoch 54/100

- 1s - loss: 2.1039e-04 - acc: 0.9072 - val\_loss: 2.4110e-04 - val\_acc: 0.9085

Epoch 55/100

- 1s - loss: 2.0990e-04 - acc: 0.9081 - val\_loss: 2.5734e-04 - val\_acc: 0.9124

Epoch 56/100

- 1s - loss: 2.1649e-04 - acc: 0.8916 - val\_loss: 2.4996e-04 - val\_acc: 0.9085

Epoch 57/100

- 1s - loss: 2.0537e-04 - acc: 0.9076 - val\_loss: 2.4368e-04 - val\_acc: 0.8955

Epoch 58/100

- 1s - loss: 2.0831e-04 - acc: 0.9021 - val\_loss: 2.4152e-04 - val\_acc: 0.9055

Epoch 59/100

- 1s - loss: 2.0602e-04 - acc: 0.8959 - val\_loss: 2.5012e-04 - val\_acc: 0.9079

Epoch 60/100

- 1s - loss: 2.0434e-04 - acc: 0.9049 - val\_loss: 2.3931e-04 - val\_acc: 0.9091

Epoch 61/100

- 1s - loss: 2.1069e-04 - acc: 0.9010 - val\_loss: 2.4022e-04 - val\_acc: 0.9154

Epoch 62/100

- 1s - loss: 2.0766e-04 - acc: 0.8965 - val\_loss: 2.4784e-04 - val\_acc: 0.9063

Epoch 63/100

- 1s - loss: 2.0606e-04 - acc: 0.8973 - val\_loss: 2.3764e-04 - val\_acc: 0.9040

Epoch 64/100

- 1s - loss: 2.0117e-04 - acc: 0.8975 - val\_loss: 2.3362e-04 - val\_acc: 0.9085

Epoch 65/100

- 1s - loss: 1.9896e-04 - acc: 0.8989 - val\_loss: 2.3787e-04 - val\_acc: 0.8935

Epoch 66/100

- 1s - loss: 2.1300e-04 - acc: 0.8851 - val\_loss: 2.7310e-04 - val\_acc: 0.9073

Epoch 67/100

- 1s - loss: 2.0121e-04 - acc: 0.8876 - val\_loss: 2.2850e-04 - val\_acc: 0.9066

Epoch 68/100

- 1s - loss: 1.9561e-04 - acc: 0.8900 - val\_loss: 2.2790e-04 - val\_acc: 0.9097

Epoch 69/100

- 1s - loss: 1.9438e-04 - acc: 0.8897 - val\_loss: 2.2755e-04 - val\_acc: 0.9102

Epoch 70/100

- 1s - loss: 1.9466e-04 - acc: 0.8848 - val\_loss: 2.5069e-04 - val\_acc: 0.8993

Epoch 71/100

- 1s - loss: 1.9096e-04 - acc: 0.8803 - val\_loss: 2.3609e-04 - val\_acc: 0.6667

Epoch 72/100

- 1s - loss: 1.9703e-04 - acc: 0.8939 - val\_loss: 2.3093e-04 - val\_acc: 0.9062

Epoch 73/100

- 1s - loss: 1.8507e-04 - acc: 0.8798 - val\_loss: 2.3787e-04 - val\_acc: 0.9070

Epoch 74/100

- 1s - loss: 1.8776e-04 - acc: 0.8687 - val\_loss: 2.2860e-04 - val\_acc: 0.6832

Epoch 75/100

- 1s - loss: 2.1782e-04 - acc: 0.8856 - val\_loss: 2.2321e-04 - val\_acc: 0.9155

Epoch 76/100

- 1s - loss: 1.8600e-04 - acc: 0.8776 - val\_loss: 2.2617e-04 - val\_acc: 0.9111

Epoch 77/100

- 1s - loss: 1.8512e-04 - acc: 0.9022 - val\_loss: 2.3809e-04 - val\_acc: 0.8926

Epoch 78/100

- 1s - loss: 1.8547e-04 - acc: 0.8790 - val\_loss: 2.3388e-04 - val\_acc: 0.8998

Epoch 79/100

- 1s - loss: 1.8987e-04 - acc: 0.8857 - val\_loss: 2.6422e-04 - val\_acc: 0.9052

Epoch 80/100

- 1s - loss: 1.8719e-04 - acc: 0.8943 - val\_loss: 2.3285e-04 - val\_acc: 0.7760

Epoch 81/100

- 1s - loss: 1.8641e-04 - acc: 0.8719 - val\_loss: 2.3083e-04 - val\_acc: 0.9116

Epoch 82/100

- 1s - loss: 1.8395e-04 - acc: 0.8898 - val\_loss: 2.2391e-04 - val\_acc: 0.9053

Epoch 83/100

- 1s - loss: 1.8443e-04 - acc: 0.8870 - val\_loss: 2.3300e-04 - val\_acc: 0.9030

Epoch 84/100

- 1s - loss: 1.8743e-04 - acc: 0.8818 - val\_loss: 2.2352e-04 - val\_acc: 0.8720

Epoch 85/100

- 1s - loss: 1.8744e-04 - acc: 0.8908 - val\_loss: 2.3008e-04 - val\_acc: 0.9029

Epoch 86/100

- 1s - loss: 1.8876e-04 - acc: 0.8952 - val\_loss: 2.3867e-04 - val\_acc: 0.8630

Epoch 87/100

- 1s - loss: 1.8294e-04 - acc: 0.8944 - val\_loss: 2.4715e-04 - val\_acc: 0.7347

Epoch 88/100

- 1s - loss: 1.8262e-04 - acc: 0.8929 - val\_loss: 3.8206e-04 - val\_acc: 0.8387

Epoch 89/100

- 1s - loss: 1.9232e-04 - acc: 0.8839 - val\_loss: 2.5795e-04 - val\_acc: 0.9033

Epoch 90/100

- 1s - loss: 1.8230e-04 - acc: 0.9035 - val\_loss: 2.2162e-04 - val\_acc: 0.8848

Epoch 91/100

- 1s - loss: 1.8510e-04 - acc: 0.8930 - val\_loss: 2.3547e-04 - val\_acc: 0.8638

Epoch 92/100

- 1s - loss: 1.7999e-04 - acc: 0.8940 - val\_loss: 2.5823e-04 - val\_acc: 0.9128

Epoch 93/100

- 1s - loss: 1.7894e-04 - acc: 0.8992 - val\_loss: 2.7118e-04 - val\_acc: 0.9151

Epoch 94/100

- 1s - loss: 1.7939e-04 - acc: 0.8954 - val\_loss: 2.7462e-04 - val\_acc: 0.9125

Epoch 95/100

- 1s - loss: 1.8078e-04 - acc: 0.8939 - val\_loss: 2.2235e-04 - val\_acc: 0.8995

Epoch 96/100

- 1s - loss: 1.8700e-04 - acc: 0.8889 - val\_loss: 2.3780e-04 - val\_acc: 0.9137

Epoch 97/100

- 1s - loss: 1.8219e-04 - acc: 0.8948 - val\_loss: 2.2559e-04 - val\_acc: 0.9066

Epoch 98/100

- 1s - loss: 1.7569e-04 - acc: 0.8992 - val\_loss: 2.1216e-04 - val\_acc: 0.8853

Epoch 99/100

- 1s - loss: 1.7632e-04 - acc: 0.8933 - val\_loss: 2.3859e-04 - val\_acc: 0.9105

Epoch 100/100

- 1s - loss: 1.8159e-04 - acc: 0.8989 - val\_loss: 2.1921e-04 - val\_acc: 0.9144

Test 2

- 1s - loss: 9.8683e-04 - acc: 0.9082 - val\_loss: 0.0010 - val\_acc: 0.9052

Epoch 9/100

- 1s - loss: 8.9812e-04 - acc: 0.9148 - val\_loss: 9.2266e-04 - val\_acc: 0.9162

Epoch 10/100

- 1s - loss: 8.3722e-04 - acc: 0.9178 - val\_loss: 8.6345e-04 - val\_acc: 0.9212

Epoch 11/100

- 1s - loss: 7.9071e-04 - acc: 0.9209 - val\_loss: 8.4176e-04 - val\_acc: 0.9136

Epoch 12/100

- 1s - loss: 7.5663e-04 - acc: 0.9238 - val\_loss: 8.0377e-04 - val\_acc: 0.9194

Epoch 13/100

- 1s - loss: 7.2171e-04 - acc: 0.9275 - val\_loss: 7.5952e-04 - val\_acc: 0.9204

Epoch 14/100

- 1s - loss: 6.8919e-04 - acc: 0.9269 - val\_loss: 7.4873e-04 - val\_acc: 0.9556

Epoch 15/100

- 1s - loss: 6.6114e-04 - acc: 0.9298 - val\_loss: 6.8228e-04 - val\_acc: 0.9461

Epoch 16/100

- 1s - loss: 6.2980e-04 - acc: 0.9314 - val\_loss: 6.6476e-04 - val\_acc: 0.9288

Epoch 17/100

- 1s - loss: 6.0591e-04 - acc: 0.9289 - val\_loss: 6.5011e-04 - val\_acc: 0.9446

Epoch 18/100

- 1s - loss: 5.8216e-04 - acc: 0.9316 - val\_loss: 6.2265e-04 - val\_acc: 0.9290

Epoch 19/100

- 1s - loss: 5.6167e-04 - acc: 0.9293 - val\_loss: 5.6935e-04 - val\_acc: 0.9201

Epoch 20/100

- 1s - loss: 5.4270e-04 - acc: 0.9304 - val\_loss: 6.8809e-04 - val\_acc: 0.9123

Epoch 21/100

- 1s - loss: 5.2721e-04 - acc: 0.9258 - val\_loss: 5.2018e-04 - val\_acc: 0.9417

Epoch 22/100

- 1s - loss: 4.9619e-04 - acc: 0.9177 - val\_loss: 5.3007e-04 - val\_acc: 0.9336

Epoch 23/100

- 1s - loss: 4.8459e-04 - acc: 0.9153 - val\_loss: 5.1049e-04 - val\_acc: 0.9187

Epoch 24/100

- 1s - loss: 4.7733e-04 - acc: 0.9099 - val\_loss: 5.1587e-04 - val\_acc: 0.9320

Epoch 25/100

- 1s - loss: 4.6901e-04 - acc: 0.9051 - val\_loss: 5.3420e-04 - val\_acc: 0.8747

Epoch 26/100

- 1s - loss: 4.5808e-04 - acc: 0.9014 - val\_loss: 5.0183e-04 - val\_acc: 0.9275

Epoch 27/100

- 1s - loss: 4.5028e-04 - acc: 0.9017 - val\_loss: 4.9590e-04 - val\_acc: 0.9281

Epoch 28/100

- 1s - loss: 4.3977e-04 - acc: 0.8961 - val\_loss: 4.6551e-04 - val\_acc: 0.8787

Epoch 29/100

- 1s - loss: 4.3921e-04 - acc: 0.8969 - val\_loss: 5.1609e-04 - val\_acc: 0.9170

Epoch 30/100

- 1s - loss: 4.3721e-04 - acc: 0.8953 - val\_loss: 4.8933e-04 - val\_acc: 0.8865

Epoch 31/100

- 1s - loss: 4.2945e-04 - acc: 0.8924 - val\_loss: 4.7044e-04 - val\_acc: 0.9030

Epoch 32/100

- 1s - loss: 4.2311e-04 - acc: 0.8930 - val\_loss: 4.4608e-04 - val\_acc: 0.8812

Epoch 33/100

- 1s - loss: 4.1920e-04 - acc: 0.8876 - val\_loss: 4.4700e-04 - val\_acc: 0.9001

Epoch 34/100

- 1s - loss: 4.1634e-04 - acc: 0.8877 - val\_loss: 4.5068e-04 - val\_acc: 0.9153

Epoch 35/100

- 1s - loss: 4.1057e-04 - acc: 0.8858 - val\_loss: 5.2526e-04 - val\_acc: 0.8588

Epoch 36/100

- 1s - loss: 4.1429e-04 - acc: 0.8837 - val\_loss: 4.7709e-04 - val\_acc: 0.8768

Epoch 37/100

- 1s - loss: 4.0845e-04 - acc: 0.8830 - val\_loss: 4.6135e-04 - val\_acc: 0.8868

Epoch 38/100

- 1s - loss: 4.0394e-04 - acc: 0.8803 - val\_loss: 4.6020e-04 - val\_acc: 0.9046

Epoch 39/100

- 1s - loss: 3.9792e-04 - acc: 0.8821 - val\_loss: 4.2434e-04 - val\_acc: 0.8977

Epoch 40/100

- 1s - loss: 3.9564e-04 - acc: 0.8819 - val\_loss: 4.1950e-04 - val\_acc: 0.8922

Epoch 41/100

- 1s - loss: 3.9129e-04 - acc: 0.8778 - val\_loss: 4.1943e-04 - val\_acc: 0.8957

Epoch 42/100

- 1s - loss: 3.9006e-04 - acc: 0.8808 - val\_loss: 4.0899e-04 - val\_acc: 0.9063

Epoch 43/100

- 1s - loss: 3.9206e-04 - acc: 0.8810 - val\_loss: 4.1037e-04 - val\_acc: 0.8518

Epoch 44/100

- 1s - loss: 3.8337e-04 - acc: 0.8813 - val\_loss: 4.4518e-04 - val\_acc: 0.9043

Epoch 45/100

- 1s - loss: 3.7863e-04 - acc: 0.8798 - val\_loss: 4.1679e-04 - val\_acc: 0.9029

Epoch 46/100

- 1s - loss: 3.8238e-04 - acc: 0.8792 - val\_loss: 4.9007e-04 - val\_acc: 0.8942

Epoch 47/100

- 1s - loss: 3.7727e-04 - acc: 0.8808 - val\_loss: 4.1308e-04 - val\_acc: 0.9077

Epoch 48/100

- 1s - loss: 3.7518e-04 - acc: 0.8854 - val\_loss: 4.4378e-04 - val\_acc: 0.9115

Epoch 49/100

- 1s - loss: 3.7577e-04 - acc: 0.8859 - val\_loss: 4.0459e-04 - val\_acc: 0.9040

Epoch 50/100

- 1s - loss: 3.6965e-04 - acc: 0.8906 - val\_loss: 4.1217e-04 - val\_acc: 0.8900

Epoch 51/100

- 1s - loss: 3.6844e-04 - acc: 0.8898 - val\_loss: 4.0945e-04 - val\_acc: 0.9052

Epoch 52/100

- 1s - loss: 3.6785e-04 - acc: 0.8914 - val\_loss: 4.4357e-04 - val\_acc: 0.8948

Epoch 53/100

- 1s - loss: 3.5597e-04 - acc: 0.8922 - val\_loss: 4.1298e-04 - val\_acc: 0.8174

Epoch 54/100

- 1s - loss: 3.5504e-04 - acc: 0.8938 - val\_loss: 4.0499e-04 - val\_acc: 0.8955

Epoch 55/100

- 1s - loss: 3.5167e-04 - acc: 0.8966 - val\_loss: 3.7060e-04 - val\_acc: 0.8789

Epoch 56/100

- 1s - loss: 3.4974e-04 - acc: 0.8938 - val\_loss: 3.7549e-04 - val\_acc: 0.9019

Epoch 57/100

- 1s - loss: 3.4740e-04 - acc: 0.8995 - val\_loss: 3.8040e-04 - val\_acc: 0.8986

Epoch 58/100

- 1s - loss: 3.4414e-04 - acc: 0.8990 - val\_loss: 4.0528e-04 - val\_acc: 0.9069

Epoch 59/100

- 1s - loss: 3.4027e-04 - acc: 0.9029 - val\_loss: 4.0648e-04 - val\_acc: 0.9142

Epoch 60/100

- 1s - loss: 3.3987e-04 - acc: 0.9053 - val\_loss: 4.3536e-04 - val\_acc: 0.9228

Epoch 61/100

- 1s - loss: 3.3754e-04 - acc: 0.9050 - val\_loss: 3.8906e-04 - val\_acc: 0.8919

Epoch 62/100

- 1s - loss: 3.3241e-04 - acc: 0.9056 - val\_loss: 3.7366e-04 - val\_acc: 0.8965

Epoch 63/100

- 1s - loss: 3.3118e-04 - acc: 0.9060 - val\_loss: 3.7238e-04 - val\_acc: 0.8718

Epoch 64/100

- 1s - loss: 3.2639e-04 - acc: 0.9044 - val\_loss: 3.9471e-04 - val\_acc: 0.8967

Epoch 65/100

- 1s - loss: 3.2787e-04 - acc: 0.9022 - val\_loss: 3.7597e-04 - val\_acc: 0.9145

Epoch 66/100

- 1s - loss: 3.2404e-04 - acc: 0.9063 - val\_loss: 3.6712e-04 - val\_acc: 0.8918

Epoch 67/100

- 1s - loss: 3.2297e-04 - acc: 0.9065 - val\_loss: 3.7511e-04 - val\_acc: 0.9103

Epoch 68/100

- 1s - loss: 3.2337e-04 - acc: 0.9052 - val\_loss: 3.6464e-04 - val\_acc: 0.9123

Epoch 69/100

- 1s - loss: 3.2528e-04 - acc: 0.9076 - val\_loss: 3.4893e-04 - val\_acc: 0.9059

Epoch 70/100

- 1s - loss: 3.1571e-04 - acc: 0.9049 - val\_loss: 3.7910e-04 - val\_acc: 0.9122

Epoch 71/100

- 1s - loss: 3.2229e-04 - acc: 0.9044 - val\_loss: 3.4378e-04 - val\_acc: 0.9112

Epoch 72/100

- 1s - loss: 3.1715e-04 - acc: 0.9091 - val\_loss: 3.5038e-04 - val\_acc: 0.9010

Epoch 73/100

- 2s - loss: 3.1118e-04 - acc: 0.9067 - val\_loss: 3.4906e-04 - val\_acc: 0.9138

Epoch 74/100

- 1s - loss: 3.0973e-04 - acc: 0.9033 - val\_loss: 3.6335e-04 - val\_acc: 0.9174

Epoch 75/100

- 1s - loss: 3.1053e-04 - acc: 0.9045 - val\_loss: 3.4659e-04 - val\_acc: 0.9105

Epoch 76/100

- 1s - loss: 3.0495e-04 - acc: 0.9065 - val\_loss: 4.2709e-04 - val\_acc: 0.9164

Epoch 77/100

- 2s - loss: 3.1323e-04 - acc: 0.9028 - val\_loss: 3.4724e-04 - val\_acc: 0.9174

Epoch 78/100

- 1s - loss: 3.0488e-04 - acc: 0.9071 - val\_loss: 4.3988e-04 - val\_acc: 0.9176

Epoch 79/100

- 1s - loss: 3.0769e-04 - acc: 0.9045 - val\_loss: 4.4282e-04 - val\_acc: 0.9193

Epoch 80/100

- 1s - loss: 3.0146e-04 - acc: 0.9071 - val\_loss: 3.4302e-04 - val\_acc: 0.8953

Epoch 81/100

- 1s - loss: 3.0179e-04 - acc: 0.9067 - val\_loss: 3.9825e-04 - val\_acc: 0.7522

Epoch 82/100

- 1s - loss: 2.9852e-04 - acc: 0.9085 - val\_loss: 3.6562e-04 - val\_acc: 0.9136

Epoch 83/100

- 1s - loss: 2.9670e-04 - acc: 0.9106 - val\_loss: 3.5746e-04 - val\_acc: 0.9090

Epoch 84/100

- 1s - loss: 2.9737e-04 - acc: 0.9102 - val\_loss: 3.3346e-04 - val\_acc: 0.9084

Epoch 85/100

- 1s - loss: 2.8943e-04 - acc: 0.9100 - val\_loss: 3.5035e-04 - val\_acc: 0.9143

Epoch 86/100

- 1s - loss: 2.9228e-04 - acc: 0.9104 - val\_loss: 3.2536e-04 - val\_acc: 0.9137

Epoch 87/100

- 1s - loss: 2.8936e-04 - acc: 0.9128 - val\_loss: 3.5226e-04 - val\_acc: 0.9139

Epoch 88/100

- 1s - loss: 2.9385e-04 - acc: 0.9089 - val\_loss: 3.6440e-04 - val\_acc: 0.9140

Epoch 89/100

- 1s - loss: 2.8875e-04 - acc: 0.9138 - val\_loss: 3.4095e-04 - val\_acc: 0.9165

Epoch 90/100

- 1s - loss: 2.9246e-04 - acc: 0.9111 - val\_loss: 3.4409e-04 - val\_acc: 0.9018

Epoch 91/100

- 1s - loss: 2.8540e-04 - acc: 0.9129 - val\_loss: 3.8375e-04 - val\_acc: 0.9199

Epoch 92/100

- 1s - loss: 2.8420e-04 - acc: 0.9124 - val\_loss: 3.6208e-04 - val\_acc: 0.9129

Epoch 93/100

- 1s - loss: 2.8582e-04 - acc: 0.9137 - val\_loss: 3.1389e-04 - val\_acc: 0.9184

Epoch 94/100

- 1s - loss: 2.7980e-04 - acc: 0.9142 - val\_loss: 3.3439e-04 - val\_acc: 0.9141

Epoch 95/100

- 1s - loss: 2.8395e-04 - acc: 0.9110 - val\_loss: 3.3903e-04 - val\_acc: 0.9201

Epoch 96/100

- 1s - loss: 2.7690e-04 - acc: 0.9125 - val\_loss: 3.1513e-04 - val\_acc: 0.9172

Epoch 97/100

- 1s - loss: 2.7545e-04 - acc: 0.9127 - val\_loss: 3.0064e-04 - val\_acc: 0.9164

Epoch 98/100

- 1s - loss: 2.8215e-04 - acc: 0.9155 - val\_loss: 3.2266e-04 - val\_acc: 0.9058

Epoch 99/100

- 1s - loss: 2.7357e-04 - acc: 0.9143 - val\_loss: 3.0234e-04 - val\_acc: 0.9125

Epoch 100/100

- 1s - loss: 2.7763e-04 - acc: 0.9142 - val\_loss: 3.2693e-04 - val\_acc: 0.9184