

4695/4695 [=====] - 1s 183us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 53/100
4695/4695 [=====] - 1s 193us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 54/100
4695/4695 [=====] - 1s 193us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 55/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 56/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 57/100
4695/4695 [=====] - 1s 177us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 58/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 59/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 60/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 61/100
4695/4695 [=====] - 1s 178us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 62/100
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Epoch 63/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 64/100
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Epoch 65/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 66/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9419 - accuracy: 0.0000e+00
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4695/4695 [=====] - 1s 181us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 68/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 69/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 70/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00
Epoch 71/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy: 0.0000e+00

Epoch 72/100
4695/4695 [=====] - 1s 194us/step - loss: 3.9419 - accuracy:
0.0000e+00

Epoch 73/100
4695/4695 [=====] - 1s 185us/step - loss: 3.9419 - accuracy:
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Epoch 74/100
4695/4695 [=====] - 1s 177us/step - loss: 3.9419 - accuracy:
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Epoch 75/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy:
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Epoch 76/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9419 - accuracy:
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Epoch 77/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy:
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Epoch 78/100
4695/4695 [=====] - 1s 184us/step - loss: 3.9419 - accuracy:
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Epoch 79/100
4695/4695 [=====] - 1s 181us/step - loss: 3.9419 - accuracy:
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Epoch 80/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9419 - accuracy:
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Epoch 81/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy:
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Epoch 82/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy:
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Epoch 83/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy:
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Epoch 84/100
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Epoch 85/100
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Epoch 86/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy:
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Epoch 87/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9419 - accuracy:
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Epoch 88/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9419 - accuracy:
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Epoch 89/100
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Epoch 90/100
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Epoch 91/100
4695/4695 [=====] - 1s 201us/step - loss: 3.9419 - accuracy:

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Epoch 92/100
4695/4695 [=====] - 1s 185us/step - loss: 3.9419 - accuracy:
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Epoch 93/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9419 - accuracy:
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Epoch 94/100
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Epoch 100/100
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Epoch 1/100
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Epoch 8/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9452 - accuracy:
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Epoch 9/100
4695/4695 [=====] - 1s 197us/step - loss: 3.9452 - accuracy:
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Epoch 10/100
4695/4695 [=====] - 1s 188us/step - loss: 3.9452 - accuracy:
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Epoch 11/100

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4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 12/100
 4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 13/100
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 Epoch 14/100
 4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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 Epoch 15/100
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 Epoch 16/100
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 Epoch 17/100
 4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 18/100
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 Epoch 30/100
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Epoch 31/100
4695/4695 [=====] - 1s 177us/step - loss: 3.9452 - accuracy:
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Epoch 32/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 33/100
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Epoch 34/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 35/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 36/100
4695/4695 [=====] - 1s 178us/step - loss: 3.9452 - accuracy:
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Epoch 37/100
4695/4695 [=====] - 1s 178us/step - loss: 3.9452 - accuracy:
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Epoch 38/100
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Epoch 39/100
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Epoch 40/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 41/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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Epoch 42/100
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Epoch 43/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 44/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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Epoch 45/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 46/100
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Epoch 47/100
4695/4695 [=====] - 1s 191us/step - loss: 3.9452 - accuracy:
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Epoch 48/100
4695/4695 [=====] - 1s 181us/step - loss: 3.9452 - accuracy:
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Epoch 49/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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Epoch 50/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:

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Epoch 51/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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Epoch 52/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 53/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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Epoch 54/100
4695/4695 [=====] - 1s 179us/step - loss: 3.9452 - accuracy:
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Epoch 55/100
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Epoch 56/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 57/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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Epoch 65/100
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Epoch 66/100
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Epoch 67/100
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Epoch 68/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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Epoch 69/100
4695/4695 [=====] - 1s 178us/step - loss: 3.9452 - accuracy:
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Epoch 70/100

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4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 71/100
 4695/4695 [=====] - 1s 182us/step - loss: 3.9452 - accuracy:
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 Epoch 72/100
 4695/4695 [=====] - 1s 179us/step - loss: 3.9452 - accuracy:
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 Epoch 73/100
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 Epoch 74/100
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 Epoch 75/100
 4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 76/100
 4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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 Epoch 77/100
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 Epoch 78/100
 4695/4695 [=====] - 1s 179us/step - loss: 3.9452 - accuracy:
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 Epoch 79/100
 4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 80/100
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 Epoch 81/100
 4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 82/100
 4695/4695 [=====] - 1s 183us/step - loss: 3.9452 - accuracy:
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 Epoch 83/100
 4695/4695 [=====] - 1s 187us/step - loss: 3.9452 - accuracy:
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 Epoch 84/100
 4695/4695 [=====] - 1s 199us/step - loss: 3.9452 - accuracy:
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 Epoch 85/100
 4695/4695 [=====] - 1s 184us/step - loss: 3.9452 - accuracy:
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 Epoch 86/100
 4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 87/100
 4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy:
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 Epoch 88/100
 4695/4695 [=====] - 1s 181us/step - loss: 3.9452 - accuracy:
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 Epoch 89/100
 4695/4695 [=====] - 1s 181us/step - loss: 3.9452 - accuracy:
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Epoch 90/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy: 0.0000e+00
Epoch 91/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy: 0.0000e+00
Epoch 92/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy: 0.0000e+00
Epoch 93/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy: 0.0000e+00
Epoch 94/100
4695/4695 [=====] - 1s 178us/step - loss: 3.9452 - accuracy: 0.0000e+00
Epoch 95/100
4695/4695 [=====] - 1s 181us/step - loss: 3.9452 - accuracy: 0.0000e+00
Epoch 96/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy: 0.0000e+00
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Epoch 98/100
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Epoch 99/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy: 0.0000e+00
Epoch 100/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9452 - accuracy: 0.0000e+00
Epoch 1/100
4695/4695 [=====] - 1s 178us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 2/100
4695/4695 [=====] - 1s 197us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 3/100
4695/4695 [=====] - 1s 188us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 4/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 5/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy: 0.0000e+00
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Epoch 7/100
4695/4695 [=====] - 1s 181us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 8/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 9/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00


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Epoch 10/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
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Epoch 11/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy:
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Epoch 12/100
4695/4695 [=====] - 1s 179us/step - loss: 3.9256 - accuracy:
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Epoch 13/100
4695/4695 [=====] - 1s 178us/step - loss: 3.9256 - accuracy:
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Epoch 14/100
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Epoch 15/100
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Epoch 17/100
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Epoch 18/100
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Epoch 28/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
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Epoch 29/100

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4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
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Epoch 30/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9256 - accuracy:
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Epoch 31/100
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Epoch 32/100
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Epoch 34/100
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Epoch 35/100
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Epoch 47/100
4695/4695 [=====] - 1s 184us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 48/100
4695/4695 [=====] - 1s 179us/step - loss: 3.9256 - accuracy:
0.0000e+00

Epoch 49/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 50/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 51/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 52/100
4695/4695 [=====] - 1s 185us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 53/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 54/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 55/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 56/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 57/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 58/100
4695/4695 [=====] - 1s 199us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 59/100
4695/4695 [=====] - 1s 186us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 60/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 61/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 62/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 63/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 64/100
4695/4695 [=====] - 1s 181us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 65/100
4695/4695 [=====] - 1s 181us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 66/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 67/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy: 0.0000e+00
Epoch 68/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:

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0.0000e+00
Epoch 69/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 70/100
4695/4695 [=====] - 1s 184us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 71/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 72/100
4695/4695 [=====] - 1s 184us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 73/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 74/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 75/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 76/100
4695/4695 [=====] - 1s 188us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 77/100
4695/4695 [=====] - 1s 195us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 78/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 79/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 80/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 81/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 82/100
4695/4695 [=====] - 1s 179us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 83/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 84/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 85/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 86/100
4695/4695 [=====] - 1s 181us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 87/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 88/100

```

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4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 89/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 90/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 91/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 92/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 93/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 94/100
4695/4695 [=====] - 1s 181us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 95/100
4695/4695 [=====] - 1s 193us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 96/100
4695/4695 [=====] - 1s 191us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 97/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 98/100
4695/4695 [=====] - 1s 183us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 99/100
4695/4695 [=====] - 1s 182us/step - loss: 3.9256 - accuracy:
0.0000e+00
Epoch 100/100
4695/4695 [=====] - 1s 180us/step - loss: 3.9256 - accuracy:
0.0000e+00
Error para red: 1.0

```

In [7]: