

Epoch 1/50  
235/235 [=====] - 1s 4ms/step - loss: 0.2721 - val\_loss: 0.1845  
Epoch 2/50  
235/235 [=====] - 1s 4ms/step - loss: 0.1674 - val\_loss: 0.1520  
Epoch 3/50  
235/235 [=====] - 1s 4ms/step - loss: 0.1430 - val\_loss: 0.1324  
Epoch 4/50  
235/235 [=====] - 1s 4ms/step - loss: 0.1274 - val\_loss: 0.1202  
Epoch 5/50  
235/235 [=====] - 1s 4ms/step - loss: 0.1172 - val\_loss: 0.1119  
Epoch 6/50  
235/235 [=====] - 1s 4ms/step - loss: 0.1103 - val\_loss: 0.1061  
Epoch 7/50  
235/235 [=====] - 1s 4ms/step - loss: 0.1052 - val\_loss: 0.1020  
Epoch 8/50  
235/235 [=====] - 1s 4ms/step - loss: 0.1016 - val\_loss: 0.0988  
Epoch 9/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0990 - val\_loss: 0.0966  
Epoch 10/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0972 - val\_loss: 0.0952  
Epoch 11/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0960 - val\_loss: 0.0943  
Epoch 12/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0952 - val\_loss: 0.0936  
Epoch 13/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0947 - val\_loss: 0.0932  
Epoch 14/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0943 - val\_loss: 0.0928  
Epoch 15/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0941 - val\_loss: 0.0926  
Epoch 16/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0939 - val\_loss: 0.0924  
Epoch 17/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0937 - val\_loss: 0.0923  
Epoch 18/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0936 - val\_loss: 0.0923  
Epoch 19/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0935 - val\_loss: 0.0921  
Epoch 20/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0934 - val\_loss: 0.0921  
Epoch 21/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0933 - val\_loss: 0.0920  
Epoch 22/50  
235/235 [=====] - 1s 4ms/step - loss: 0.0932 - val\_loss: 0.0919

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Epoch 23/50
235/235 [=====] - 1s 4ms/step - loss: 0.0932 - val_loss: 0.0918
Epoch 24/50
235/235 [=====] - 1s 4ms/step - loss: 0.0931 - val_loss: 0.0919
Epoch 25/50
235/235 [=====] - 1s 4ms/step - loss: 0.0931 - val_loss: 0.0918
Epoch 26/50
235/235 [=====] - 1s 4ms/step - loss: 0.0930 - val_loss: 0.0918
Epoch 27/50
235/235 [=====] - 1s 4ms/step - loss: 0.0930 - val_loss: 0.0918
Epoch 28/50
235/235 [=====] - 1s 4ms/step - loss: 0.0930 - val_loss: 0.0918
Epoch 29/50
235/235 [=====] - 1s 4ms/step - loss: 0.0929 - val_loss: 0.0917
Epoch 30/50
235/235 [=====] - 1s 3ms/step - loss: 0.0929 - val_loss: 0.0918
Epoch 31/50
235/235 [=====] - 1s 3ms/step - loss: 0.0929 - val_loss: 0.0917
Epoch 32/50
235/235 [=====] - 1s 4ms/step - loss: 0.0929 - val_loss: 0.0917
Epoch 33/50
235/235 [=====] - 1s 4ms/step - loss: 0.0928 - val_loss: 0.0916
Epoch 34/50
235/235 [=====] - 1s 4ms/step - loss: 0.0928 - val_loss: 0.0916
Epoch 35/50
235/235 [=====] - 1s 4ms/step - loss: 0.0928 - val_loss: 0.0916
Epoch 36/50
235/235 [=====] - 1s 4ms/step - loss: 0.0928 - val_loss: 0.0915
Epoch 37/50
235/235 [=====] - 1s 4ms/step - loss: 0.0928 - val_loss: 0.0916
Epoch 38/50
235/235 [=====] - 1s 4ms/step - loss: 0.0928 - val_loss: 0.0915
Epoch 39/50
235/235 [=====] - 1s 4ms/step - loss: 0.0927 - val_loss: 0.0916
Epoch 40/50
235/235 [=====] - 1s 4ms/step - loss: 0.0927 - val_loss: 0.0916
Epoch 41/50
235/235 [=====] - 1s 4ms/step - loss: 0.0927 - val_loss: 0.0915
Epoch 42/50
235/235 [=====] - 1s 4ms/step - loss: 0.0927 - val_loss: 0.0915
Epoch 43/50
235/235 [=====] - 1s 4ms/step - loss: 0.0927 - val_loss: 0.0915
Epoch 44/50
235/235 [=====] - 1s 4ms/step - loss: 0.0927 - val_loss: 0.0915
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Epoch 45/50
235/235 [=====] - 1s 4ms/step - loss: 0.0927 - val_loss: 0.0916
Epoch 46/50
235/235 [=====] - 1s 4ms/step - loss: 0.0927 - val_loss: 0.0915
Epoch 47/50
235/235 [=====] - 1s 4ms/step - loss: 0.0926 - val_loss: 0.0915
Epoch 48/50
235/235 [=====] - 1s 4ms/step - loss: 0.0926 - val_loss: 0.0915
Epoch 49/50
235/235 [=====] - 1s 4ms/step - loss: 0.0926 - val_loss: 0.0914
Epoch 50/50
235/235 [=====] - 1s 4ms/step - loss: 0.0926 - val_loss: 0.0915
313/313 [=====] - 0s 925us/step - loss: 0.0915
313/313 [=====] - 0s 770us/step
Test Loss: 0.09148035198450089
Test Accuracy: 0.971384693877551
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