```
S C:\Users\bbodd\AI-Development> & 'c:\Program Files\Python312\python.exe
4\bundled\libs\debugpy\launcher' \cdot 52344' \cdot --' \cdot \cdo
2025-05-18 21:21:40.71247: I tensorTLOW/COTe/ULIT/POTT.CC:133] oneDNN custom operations are on. You may see Slightly different numerical results of ue to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ONEDNN_OPTS=0`. 2025-05-18 21:21:44.230994: I tensorflow/core/util/port.cc:133] oneDNN custom operations are on. You may see slightly different numerical results of ue to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ONEDNN_OPTS=0`. Downloading data from https://storage.googleapis.com/tensorflow/tf-keras-datasets/mnist.npz
 11490434/11490434
                                                                                                                           2s Øus/step
c:\Program Files\Python312\Lib\site-packages\keras\src\layers\reshaping\flatten.py:37: UserWarning: Do not pass an `input_shape`/`input_dim` argume nt to a layer. When using Sequential models, prefer using an `Input(shape)` object as the first layer in the model instead.

super().__init__(**kwargs)
 2025-05-18 21:21:54.723389: I tensorflow/core/platform/cpu_feature_guard.cc:210] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.

To enable the following instructions: SSE3 SSE4.1 SSE4.2 AVX AVX2 FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.
 Epoch 1/5
 1688/1688
                                                                                              - 5s 2ms/step - accuracy: 0.8685 - loss: 0.4533 - val_accuracy: 0.9653 - val_loss: 0.1198
 Epoch 2/5
 1688/1688
                                                                                             3s 2ms/step - accuracy: 0.9656 - loss: 0.1139 - val_accuracy: 0.9730 - val_loss: 0.0951
 Epoch 3/5
                                                                                            4s 2ms/step - accuracy: 0.9769 - loss: 0.0739 - val_accuracy: 0.9760 - val_loss: 0.0838
 1688/1688
 Epoch 4/5
 1688/1688
                                                                                              - 3s 2ms/step - accuracy: 0.9817 - loss: 0.0567 - val_accuracy: 0.9767 - val_loss: 0.0903
 Epoch 5/5
                                                                                        — 3s 2ms/step - accuracy: 0.9850 - loss: 0.0478 - val_accuracy: 0.9752 - val_loss: 0.0892 - 0s 1ms/step - accuracy: 0.9696 - loss: 0.1076
 1688/1688
 313/313
 PS C:\Users\bbodd\AI-Development>
```