

Original training, validation, and test accuracy:

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Epoch 1/5
844/844 ————— 11s 8ms/step - accuracy: 0.8973 - loss: 0.3363 - val_accuracy: 0.9870 - val_loss: 0.0455
Epoch 2/5
844/844 ————— 5s 4ms/step - accuracy: 0.9857 - loss: 0.0451 - val_accuracy: 0.9885 - val_loss: 0.0404
Epoch 3/5
844/844 ————— 5s 4ms/step - accuracy: 0.9911 - loss: 0.0279 - val_accuracy: 0.9887 - val_loss: 0.0403
Epoch 4/5
844/844 ————— 5s 4ms/step - accuracy: 0.9930 - loss: 0.0206 - val_accuracy: 0.9908 - val_loss: 0.0315
Epoch 5/5
844/844 ————— 5s 4ms/step - accuracy: 0.9958 - loss: 0.0130 - val_accuracy: 0.9898 - val_loss: 0.0371
y_test shape (before one-hot encoding): (10000,)
y_test shape (after one-hot encoding): (10000, 10)
313/313 ————— 2s 4ms/step - accuracy: 0.9876 - loss: 0.0354
Test accuracy: 0.9905, Test loss: 0.0276
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New training, validation, and test accuracy with added CNN layers:

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Epoch 1/5
844/844 ————— 12s 10ms/step - accuracy: 0.8667 - loss: 0.3970 - val_accuracy: 0.9842 - val_loss: 0.0538
Epoch 2/5
844/844 ————— 5s 6ms/step - accuracy: 0.9859 - loss: 0.0455 - val_accuracy: 0.9865 - val_loss: 0.0468
Epoch 3/5
844/844 ————— 10s 6ms/step - accuracy: 0.9899 - loss: 0.0318 - val_accuracy: 0.9913 - val_loss: 0.0378
Epoch 4/5
844/844 ————— 5s 6ms/step - accuracy: 0.9934 - loss: 0.0216 - val_accuracy: 0.9895 - val_loss: 0.0376
Epoch 5/5
844/844 ————— 5s 6ms/step - accuracy: 0.9933 - loss: 0.0208 - val_accuracy: 0.9922 - val_loss: 0.0303
y_test shape (before one-hot encoding): (10000,)
y_test shape (after one-hot encoding): (10000, 10)
313/313 ————— 2s 4ms/step - accuracy: 0.9897 - loss: 0.0356
Test accuracy: 0.9916, Test loss: 0.0291
```