Train the model

Input:

#Fitting the model

model.fit(X_train, y_train, validation_data = (X_test, y_test), epochs=12, batch_size=128)

Output:

Epoch 1/12
469/469 [==============================] - 187s 399ms/step - loss: 0.3945 - accuracy: 0.9450 - val_loss: 0.0772 - val_accuracy: 0.9768
Epoch 2/12
469/469 [==============================] - 220s 469ms/step - loss: 0.0616 - accuracy: 0.9807 - val_loss: 0.0947 - val_accuracy: 0.9737
Epoch 3/12
469/469 [==============================] - 213s 455ms/step - loss: 0.0436 - accuracy: 0.9862 - val_loss: 0.1030 - val_accuracy: 0.9766
Epoch 4/12
469/469 [==============================] - 208s 443ms/step - loss: 0.0276 - accuracy: 0.9908 - val_loss: 0.0977 - val_accuracy: 0.9768
Epoch 5/12
469/469 [==============================] - 237s 504ms/step - loss: 0.0233 - accuracy: 0.9922 - val_loss: 0.1103 - val_accuracy: 0.9753
Epoch 6/12
469/469 [==============================] - 170s 362ms/step - loss: 0.0167 - accuracy: 0.9945 - val_loss: 0.1267 - val_accuracy: 0.9770
Epoch 7/12
469/469 [==============================] - 168s 358ms/step - loss: 0.0169 - accuracy: 0.9947 - val_loss: 0.1239 - val_accuracy: 0.9781
Epoch 8/12
469/469 [==============================] - 168s 358ms/step - loss: 0.0158 - accuracy: 0.9951 - val_loss: 0.1521 - val_accuracy: 0.9767
Epoch 9/12
469/469 [==============================] - 168s 358ms/step - loss: 0.0157 - accuracy: 0.9951 - val_loss: 0.1454 - val_accuracy: 0.9769
Epoch 10/12
469/469 [==============================] - 168s 359ms/step - loss: 0.0109 - accuracy: 0.9968 - val_loss: 0.1453 - val_accuracy: 0.9778
Epoch 11/12
469/469 [==============================] - 168s 358ms/step - loss: 0.0117 - accuracy: 0.9962 - val_loss: 0.1803 - val_accuracy: 0.9751
Epoch 12/12
469/469 [==============================] - 168s 358ms/step - loss: 0.0154 - accuracy: 0.9956 - val_loss: 0.1448 - val_accuracy: 0.9772