

A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM

MODEL BUILDING

Training the model

```
model.fit(x_train,y_train,validation_data=(x_test,y_test),epochs=10,batch_size=32)
```

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```

```
Epoch 1/10
1875/1875 [=====] - 216s 115ms/step - loss: 0.6403 - accuracy: 0.8567 - val_loss: 0.1166 - val_accuracy: 0.9673
Epoch 2/10
1875/1875 [=====] - 215s 115ms/step - loss: 0.1186 - accuracy: 0.9646 - val_loss: 0.0897 - val_accuracy: 0.9747
Epoch 3/10
1875/1875 [=====] - 215s 115ms/step - loss: 0.0870 - accuracy: 0.9738 - val_loss: 0.0927 - val_accuracy: 0.9711
Epoch 4/10
1875/1875 [=====] - 216s 115ms/step - loss: 0.0728 - accuracy: 0.9782 - val_loss: 0.0777 - val_accuracy: 0.9780
Epoch 5/10
1875/1875 [=====] - 213s 114ms/step - loss: 0.0586 - accuracy: 0.9823 - val_loss: 0.0733 - val_accuracy: 0.9787
Epoch 6/10
1875/1875 [=====] - 214s 114ms/step - loss: 0.0488 - accuracy: 0.9854 - val_loss: 0.0806 - val_accuracy: 0.9794
Epoch 7/10
1875/1875 [=====] - 215s 114ms/step - loss: 0.0439 - accuracy: 0.9862 - val_loss: 0.0787 - val_accuracy: 0.9802
Epoch 8/10
1875/1875 [=====] - 214s 114ms/step - loss: 0.0370 - accuracy: 0.9886 - val_loss: 0.0764 - val_accuracy: 0.9812
Epoch 9/10
1875/1875 [=====] - 214s 114ms/step - loss: 0.0365 - accuracy: 0.9886 - val_loss: 0.0833 - val_accuracy: 0.9809
Epoch 10/10
1875/1875 [=====] - 214s 114ms/step - loss: 0.0299 - accuracy: 0.9904 - val_loss: 0.0933 - val_accuracy: 0.9817
<keras.callbacks.History at 0x7f53b74cd3d0>
```