## A Novel Method for Handwritten Digit Recognition System

## Train The Model

```
+ Code + Text
Q
        TRAIN THE MODEL
\{x\}
       model.fit(X_train,y_train,epochs=20,validation_data=(X_test,y_test),batch_size=32)
1875/1875 [=================] - 255s 136ms/step - loss: 0.0343 - accuracy: 0.9892 - val_loss: 0.0704 - val_accuracy: 0.9824
             1975/1875 [=============================] - 191s 102ms/step - loss: 0.0226 - accuracy: 0.9933 - val_loss: 0.0670 - val_accuracy: 0.9843
             Epoch 10/20

[Brosh 10/20

[Brosh 10/20]

[Brosh 10
                              Epoch 12/20
             [============] - 193s 103ms/step - loss: 0.0137 - accuracy: 0.9959 - val_loss: 0.1272 - val_accuracy: 0.9805
             Epoch 15/20
             1915 102ms/step - loss: 0.0143 - accuracy: 0.9969 - val_loss: 0.1721 - val_accuracy: 0.9805
             Epoch 18/20 1875/1875 [============] - 191s 102ms/step - loss: 0.0159 - accuracy: 0.9966 - val_loss: 0.1447 - val_accuracy: 0.9834
             Epoch 19/20
             <>
             1875/1875 [------] - 192s 102ms/step - loss: 0.0148 - accuracy: 0.9969 - val_loss: 0.1757 - val_accuracy: 0.9847 
keras.callbacks.History at 0x7fc34e171fd0>
```