

A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM

MODEL BUILDING

TEST THE MODEL

```
prediction=model.predict(x_test[:4])
```

```
print(prediction)
```

```
import numpy as np
```

```
print(np.argmax(prediction,axis=1))
```

```
print(y_test[:4])
```

▾ Test the model



```
prediction=model.predict(x_test[:4])  
print(prediction)
```



```
1/1 [=====] - 1s 527ms/step  
[[7.9835247e-14  8.8641089e-01  5.5210634e-08  1.8834923e-11  6.7350567e-07  
  5.1022862e-22  1.9864825e-11  1.1358834e-01  1.2086087e-09  5.1116080e-11]  
 [5.8498219e-20  1.7248371e-04  1.3932572e-24  1.3854902e-20  3.3292142e-20  
  1.7190635e-26  2.7400793e-23  9.9982750e-01  6.8964376e-18  8.2777285e-11]  
 [1.2266987e-15  2.8969955e-09  1.5696540e-15  1.6363879e-14  2.5635488e-12  
  3.0522060e-21  4.5793931e-11  1.0000000e+00  6.6154010e-15  6.2427430e-10]  
 [4.4872871e-17  3.6266192e-05  5.9225829e-22  1.8295511e-15  1.7195116e-14  
  5.3440662e-27  3.7799933e-21  9.9996376e-01  1.7018579e-16  4.2934353e-10]]
```

```
[ ] import numpy as np  
    print(np.argmax(prediction,axis=1))  
    print(y_test[:4])
```

```
[1 7 7 7]  
[7 2 1 0]
```