A Novel Method for Handwritten Digit Recognition System

Team Id: PNT2022TMID15485 Test the model

```
In [29]:
          prediction = model.predict(X_test[:4])
          print(prediction)
         1/1 [======] - 0s 64ms/step
         [[4.77358049e-11 1.26020884e-14 2.23637656e-07 2.59297366e-07
           1.53105145e-18 1.41474479e-13 2.73819453e-19 9.99999523e-01
           5.75746352e-12 1.40723442e-08]
          [3.92702641e-05 3.63764530e-09 9.99928832e-01 1.10518204e-06
           3.28396650e-11 1.87219923e-13 3.02575540e-06 4.75269130e-12
           2.79003762e-05 1.17118581e-09]
          [3.37602168e-11 9.99982953e-01 7.10459869e-09 3.63090309e-13
           1.67968246e-05 6.36366426e-09 4.59948364e-11 2.65287614e-09
           2.72516672e-07 1.53049936e-12]
          [9.99999762e-01 1.02759820e-17 6.89465485e-10 4.13503087e-14
           3.53135576e-12 2.56500203e-11 6.89072754e-09 4.50628203e-14
           8.74276596e-10 1.82247064e-07]]
In [22]:
         print(numpy.argmax(prediction, axis=1))
         print(Y test[:4])
         [7 2 1 0]
         [[0. 0. 0. 0. 0. 0. 0. 1. 0. 0.]
         [0. 0. 1. 0. 0. 0. 0. 0. 0. 0.]
         [0. 1. 0. 0. 0. 0. 0. 0. 0. 0.]
         [1. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```