

## Project Development Phase Performance Test

Date	16 November 2022
Team ID	PNT2022TMID46193
Project Name	Project – A Novel Method For Handwritten Digit Recognition System
Maximum Marks	10 Marks

### Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No	Parameter	Values	Screenshot
1.	Model Summary	Layers:  Conv2d Conv2d_1 max_pooling2d (MaxPooling2D) flatten (Flatten) dense (Dense)	<pre> In [19]: model.summary() Model: "sequential" Layer (type)                Output Shape              Param # ----- conv2d (Conv2D)              (None, 26, 26, 64)       640 conv2d_1 (Conv2D)            (None, 24, 24, 32)       18464 max_pooling2d (MaxPooling2D) (None, 12, 12, 32)        0 flatten (Flatten)             (None, 4608)              0 dense (Dense)                 (None, 20)                92180 ----- Total params: 111,284 Trainable params: 111,284 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy – 0.9970  Validation Accuracy 0.9819	<pre> Epoch 19/20 1875/1875 [-----] - 97s 52ms/step - loss: 0.0157 - accuracy: 0.9964 - val_loss: 0.1847 - val_accuracy: 0.9810 Epoch 20/20 1875/1875 [-----] - 89s 47ms/step - loss: 0.0150 - accuracy: 0.9970 - val_loss: 0.2349 - val_accuracy: 0.9819 Out[21]: &lt;keras.callbacks.History at 0x22311cc5580&gt; </pre>