Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID26315
Project Name	Project - A Novel Method for Hand Written Digit Recognition
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	Model: "sequential" Layer (type)　　　　Output Shape Param # conv2d (Conv2D)　　　(None, 26, 26, 64)　640 conv2d_1 (Conv2D)　　(None, 24, 24, 32)　18464 flatten (Flatten)　(None, 18432) 0 dense (Dense)　　(None, 10) 184330 Total params: 203,434 Trainable params: 203,434 Non-trainable params: 0	```from tensorflow.keras.models import load_model` `model=load_model("digit.h5")`  `model.summary()`  `Model: "sequential"`  `Layer (type) Output Shape Param #` `===` `conv2d (Conv2D) (None, 26, 26, 64) 640`  `conv2d_1 (Conv2D) (None, 24, 24, 32) 18464`  `flatten (Flatten) (None, 18432) 0`  `dense (Dense) (None, 10) 184330` `===` `Total params: 203,434` `Trainable params: 203,434` `Non-trainable params: 0```
2.	Accuracy	Training Accuracy - 0.9979166388511658 Validation Accuracy -0.98089998960495	```metrics = model.evaluate(X_test1, y_test1, verbose=0)` `print("Metrics (Test Loss & Test Accuracy): ")` `print(metrics)`  `Metrics (Test Loss & Test Accuracy):` `[0.14363905787467957, 0.98089998960495]`  `metrics = model.evaluate(X_train1, y_train1, verbose=0)` `print("Metrics (Train Loss & Train Accuracy): ")` `print(metrics)`  `Metrics (Train Loss & Train Accuracy):` `[0.007249436806887388, 0.9979166388511658]```