## Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID52947	
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 the 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) 649
			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 - 99.3%  Validation Accuracy -97.8%	model accuracy  0.9950 0.9975 0.9805 0.9805 0.9805 0.9805 0.9805 0.9806 0.9775 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0  model loss  model loss  0.16 0.14 0.12 0.10 0.08 0.08 0.08 0.06 0.04 0.02 0.00 0.00 0.00 0.00 0.00 0.00

3.	Confusion Matrix	[[ 964	-1000 -1000 -800 -600 -600 -400 -200 -200
4.	Classification Report		precision recall f1-score support  0 0.99 0.98 0.99 980 1 0.98 0.99 0.98 1135 2 0.98 0.97 0.98 1032 3 0.98 0.98 0.98 1010 4 0.97 0.98 0.97 982 5 0.97 0.98 0.97 982 6 0.98 0.97 0.97 958 7 0.98 0.98 0.98 1028 8 0.97 0.98 0.98 1028 8 0.97 0.98 0.97 974 9 0.98 0.97 0.98 1009  accuracy 0.98 0.98 10000  macro avg 0.98 0.98 0.98 10000  weighted avg 0.98 0.98 0.98 10000