Project Development Phase Model Performance Test

Date	10 November 2022		
Team ID	PNT2022TMID22043		
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	We have successfully built a Python deep learning project on handwritten digit recognition app. We have built and trained the Convolutional neural network which is very effective for image classification purposes. Later on, we build the GUI where we draw a digit on the canvas then we classify the digit and show the results	Model: "sequential" Dutput Shape Param # conv2d (Conv2D) (None, 26, 26, 32) 329 max_pooling2d (MaxPooling2D) (None, 13, 13, 32) 0 conv2d_1 (Conv2D) (None, 11, 11, 64) 18496 conv2d_2 (Conv2D) (None, 9, 9, 64) 36928 max_pooling2d_1 (MaxPooling2 (None, 4, 4, 64) 0 flatten (Flatten) (None, 1924) 0 dense (Dense) (None, 189) 192598 dense_1 (Dense) (None, 18) 1918 Total params: 159,254 Non-trainable params: 159,254 Non-trainable params: 159,254
2.	Accuracy	Training Accuracy - 98.21% Validation Accuracy - 98.51%	Cross Entropy Loss 0.20 0.15 0.10 0.05 0.00 0 2 Classification Accuracy 8 0.98 0.98 0.96 0.94 0 2 4 6 8
3.	Prediction value	The output digit will be displayed along with its accuracy on the window created. Our model gives a good accuracy score with almost 90% prediction rate	Predict Clear The Number is:

