Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID52735
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]