Model Performance Test

Date	14th November 2022	
Team ID	PNT2022TMID01309	
Project Name	A Novel Method for Handwritten Digit	
	Recognition System	
Maximum Marks	10 Marks	

Model Performance Testing:

S.No	Parameter	Values	Screenshot		
1.	Model Summary		• Model: "sequential_1"		
			C→ Layer (type)	Output Shape	Param #
			conv2d_2 (Conv2D)	(None, 26, 26, 64)	640
			conv2d_3 (Conv2D)	(None, 24, 24, 64)	36928
			max_pooling2d_1 (MaxPooling 2D)	(None, 12, 12, 64)	0
			dropout_2 (Dropout)	(None, 12, 12, 64)	0
			flatten_1 (Flatten)	(None, 9216)	0
			dense_2 (Dense)	(None, 256)	2359552
			dropout_3 (Dropout)	(None, 256)	0
			dense_3 (Dense)	(None, 10)	2570
			Total params: 2,399,690 Trainable params: 2,399,690 Non-trainable params: 0		
2.	Accuracy	Training Accuracy –			
		79.58 Validation Accuracy -	Epoch 2/5 3080/3080 [246s 82ms/step - loss: 1.4854 - ac 249s 80ms/step - loss: 0.9836 - ac 238s 79ms/step - loss: 0.7668 - ac	ccuracy: 0.3602 - val_loss: 1.7692 - val_accuracy: 0.7317 ccuracy: 0.6373 - val_loss: 1.0263 - val_accuracy: 0.8171 ccuracy: 0.7249 - val_loss: 0.6623 - val_accuracy: 0.8475 ccuracy: 0.7679 - val_loss: 0.5210 - val_accuracy: 0.8662 ccuracy: 0.7958 - val_loss: 0.4510 - val_accuracy: 0.8777
		87.76	OBSERVING THE METRICS		
			[] metrics = model.evaluate(x_test, y_test, verbo print("Metrics(Loss and Accuracy):") print(metrics))Se=0)	
			Metrics(Loss and Accuracy): [0.45104262232780457, 0.8776999711990356]		