## Project Development Phase Model Performance Test

Date	16 November 2022
Team ID	PNT2022TMID52805
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		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 None									
2.	Accuracy	Training Accuracy - 99%  Validation Accuracy - 97%	0.25 0.20 0.15 0.10 0.05 0.0 0.5 1.0 0.99 0.98 0.97 0.96 0.95 0.0 0.5 1.0		aining accuracy lidation accuracy							

3.	Confusion Matrix	Confusion matrix											
		0 -	968	1	2	0	0	1	4	0	3	1	
		1 -	1	1124	3	1	0	3	2	0	1	0	- 1000
ļ		2 -	2	6	1011	0	2	0	2	6	3	0	- 800
		3 -	0	0	6	982	0	13	0	3	2	4	800
		True label	1	0	2	0	957	0	3	1	1	17	- 600
		Fig. 2	1	0	0	3	0	881	4	0	2	1	
		6 -	7	3	0	0	3	6	938	0	1	0	- 400
		7 -	0	5	16	2	3	1	0	994	0	7	
		8 -	7	1	4	1	1	3	3	5	943	6	200
		9 -	4	6	2	2	8	9	0	7	4	967	
			0	<b>~</b>	ı	っ Pr	⊳ edicte	ら ed lab	6 el	1	ъ	9	
4.	Classification Report				pre	cisi	on	rec	all	f1-s	core	sup	port
				ø		0.9	98	ø	.99		0.98		980
				1		0.			.99		0.99		1135
				2		0.9 0.9			.98 .97		0.97 0.98		1032 1010
ļ				4		0.			.97		0.98		982
						0.	96	ø	.99		0.97		892
						0.			.98		0.98		958
				7		0.			.97		0.97		1028
				8 9		0.9 0.9			.97 .96		0.98 0.96		974 1009
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			accı	uracy							0.98	10	9999
ļ				o avg		0.			.98		0.98		9999
		wei	ghted	d avg		0.	98	0	.98		0.98	10	9999
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