## Project Development Phase Model Performance Test

Date	16 November 2022
Team ID	PNT2022TMID54113
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)  conv2d (Conv2D)  conv2d_1 (Conv2D)  flatten (Flatten)	Output Shape  (None, 26, 26, 64)  (None, 24, 24, 32)  (None, 18432)	Param # 640 18464		
			dense (Dense)	(None, 10)	184330		
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 - 0.95 - 0.0 0.5 1.0	— Tr	Training loss validation loss  1.0 3.5 4.0  Training accuracy alidation accuracy 1.0 3.5 4.0		

3.	Confusion Matrix						Conf	usion	n ma	trix				
] 3.	Comasion Matrix		0 -	968	1	2	0	0	1	4	0	3	1	
			1 -	1	1124	3	1	0	3	2	0	1	0	- 100
			2 -	2	6	1011	0	2	0	2	6	3	0	
				0	0	6	982	0	13	0	3	2	4	- 800
			3 -					957						
			Frue label	1	0	2			0	3	1	1	17	- 600
			声 5 -	1	0	0	3		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>	ν	3	<b>&gt;</b>	5	6	1	8	9	L 0
							Pre	edicte	d labe	el				
4.	Classification Report					pre	cisio	n	reca	all	f1-s	core	supp	oort
					e		0.9	8	0	.99		0.98		980
					1		0.9			.99		0.99		135
					2		0.9 0.9			.98 .97		0.97 0.98		1032 1010
					4		0.9			.97		0.98		982
					5		0.9	16	0	.99		0.97		892
					6		0.9			.98		0.98		958
					7		0.9			.97		0.97		1028
					8		0.9			.97		0.98		974
					9		0.9	16	0	.96		0.96	1	1009
			accuracy								0.98	16	9999	
					o avg		0.9	8	0	.98		0.98		9999
			weig	ghte	d avg		0.9	8	0	.98		0.98	16	9000