## Project Development Phase Model Performance Test

Date	16 November 2022
Team ID	PNT2022TMID36712
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 1.5 2.0 2.5 3.0 3.5 4.0 0.99 - 0.98 - 0.97 - 0.96 - 0.95 - 0.00 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0										

3.	Confusion Matrix					Conf	usion	mat	rix					
٥.	Comasion Watrix	0 -	968	1	2	0	0	1	4	0	3	1		
		1 -	1	1124	3	1	0	3	2	0	1	0	-	1000
		2 -	2	6	1011	0	2	0	2	6	3	0		
		3 -	0	0	6	982	0	13	0	3	2	4		800
		<u>e</u> 4 -	1	0	2	0	957	0	3	1	1	17	8_	600
		True label	1	0	0	3	0	881	4	0	2	1		000
		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		
		Į.	0	÷	'n	3		5	6	1	9	9	Ц	0
						Pre	dicted	i labe	1					
4.	Classification Report				pre	cisio	n	rec	all	f1-:	core	e s	upport	
						0.9	18	0	.99		0.98	3	980	
						0.9			.99		0.99		1135	
		2			0.9 0.9			.98 .97		0.97 0.98		1032 1010		
				4		0.9			.97		0.98		982	
												,	892	
						0.9		0	.99		0.97			
						0.9	8	0	.98		0.98	3	958	
						0.9 0.9	18 18	0 0	.98 .97		0.98 0.97	3	958 1028	
				6 7 8		0.9 0.9	18 18	0 0	.98 .97 .97		0.98 0.97 0.98	3 7 3	958 1028 974	
						0.9 0.9	18 18	0 0	.98 .97		0.98 0.97	3 7 3	958 1028	
			accu	6 7 8		0.9 0.9	18 18	0 0	.98 .97 .97		0.98 0.97 0.98	3 7 3 5	958 1028 974	
		п	nacro	6 7 8 9 aracy		0.9 0.9 0.9	18 18 18 16	0 0 0	.98 .97 .97 .96		0.98 0.98 0.98 0.98	3 7 3 3	958 1028 974 1009 10000	
		п	nacro	6 7 8 9		0.9 0.9 0.9	18 18 18 16	0 0 0	.98 .97 .97 .96		0.98 0.97 0.98 0.96	3 7 3 3	958 1028 974 1009	
		п	nacro	6 7 8 9 aracy		0.9 0.9 0.9	18 18 18 16	0 0 0	.98 .97 .97 .96		0.98 0.98 0.98 0.98	3 7 3 3	958 1028 974 1009 10000	
		п	nacro	6 7 8 9 aracy		0.9 0.9 0.9	18 18 18 16	0 0 0	.98 .97 .97 .96		0.98 0.98 0.98 0.98	3 7 3 3	958 1028 974 1009 10000	