Project Development Phase Model Performance Test

Date	17 November 2022
Team ID	PNT2022TMID25508
Project Name	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, 18) 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 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

3.	Confusion Matrix	Confusion matrix												
J.		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	
		- 8 4	1	0	2	0	957	0	3	1	1	17	- 600	
		True label	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		
			L_		ν̈́	3	b	5	6	1	8	9	□ ₀	
					-	Pr	edicte	ed lab	el					
4.	Classification Report				pre	ecisio	n	rec	all	f1-s	core	sup	port	
				e	,	0.9	8	0	.99		0.98		980	
		1		0.9			.99		0.99		1135			
		2		0.9 0.9			.98		0.970.98		1032 1010			
				4		0.9			.97		0.98		982	
				5		0.9			.99		0.97		892	
				6		0.9	8	0	.98		0.98		958	
				7		0.9			.97		0.97		1028	
				8		0.9			.97		0.98		974	
				9	2	0.9	96	0	.96		0.96		1009	
		accuracy							0.98	8 10000				
		macro avg			0.9	8	0	.98		0.98	1	9999		
		weig	ghte	d avg	ţ	0.9	8	0	.98		0.98	1	9999	