Project Development Phase Model Performance Test

Date	16 November 2022
Team ID	PNT2022TMID54114
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	Confusion matrix											
] 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	~	ν	3	>	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
			acc	uracy							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