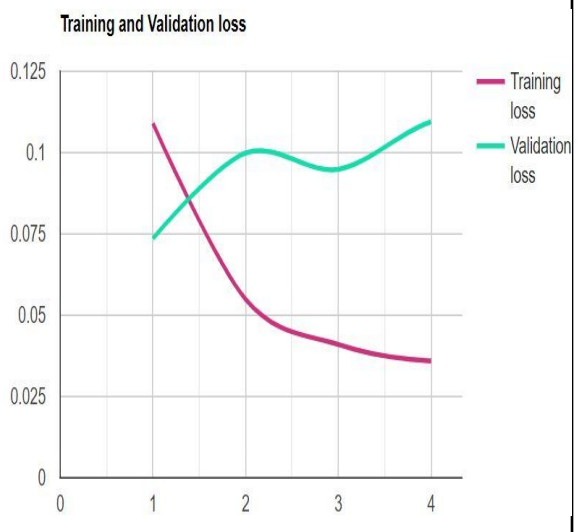
Project Development Phase
Model Performance Test

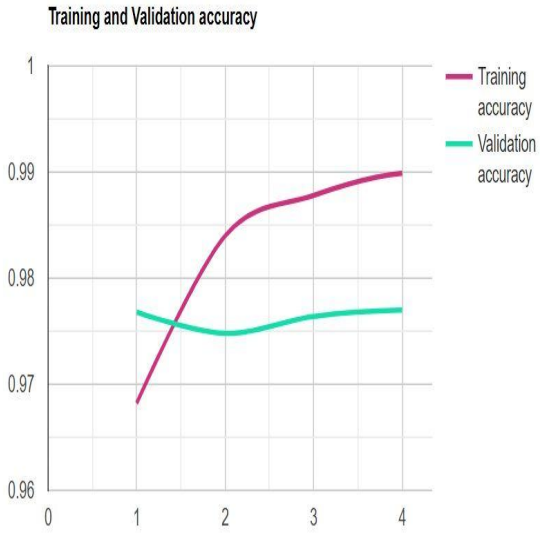
Date	10 November 2022
Team ID	PNT2022TMID37900
Project Name	Project - Handwritten Digit Recognition
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot

1.	Model Summary		`print(model.summary())`
			`Model: "sequential"`
			`_____`
			`Layer (type) Output Shape Param #`
			`=====`
			`conv2d (Conv2D) (None, 26, 26, 32) 320`
			`conv2d_1 (Conv2D) (None, 24, 24, 64) 18496`
			`flatten (Flatten) (None, 36864) 0`
			`dense (Dense) (None, 10) 368650`
			`=====`
			`Total params: 387,466`
			`Trainable params: 387,466`
			`Non-trainable params: 0`
			`_____`
			`None`

2.	Accuracy	Training Accuracy - apprx: 98% Validation Accuracy- apprx: 97%	

			
3.	Confusion Matrix		[[8 0 0 0 0 0 1 0 0 0] [0 9 0 0 0 0 0 1 0 0] [0 0 9 0 0 0 0 0 0 0] [0 0 0 8 0 0 0 0 0 0] [0 0 0 0 9 0 0 0 0 0] [0 0 0 1 0 8 0 0 1 0] [0 0 0 0 0 0 8 0 0 0] [0 0 0 0 0 0 0 8 0 0] [0 0 0 0 0 1 0 0 8 0] [1 0 0 0 0 0 0 0 0 9]]
4.	Classification Report		precision recall f1-score support 0 0.89 0.89 0.89 9 1 1.00 0.90 0.95 10 2 1.00 1.00 1.00 9 3 0.89 1.00 0.94 8 4 1.00 1.00 1.00 9 5 0.89 0.80 0.84 10 6 0.89 1.00 0.94 8 7 0.89 1.00 0.94 8 8 0.89 0.89 0.89 9 9 1.00 0.90 0.95 10 accuracy 0.93 90 macro avg 0.93 0.94 0.93 90 weighted avg 0.94 0.93 0.93 90