Project Development Phase
Model Performance Test

Date	30 june 2025
Team ID	LTVIP2025TMID32913
Project Name	Pattern Sense:classifying fabric patterns using deep learning
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	**Metrics**	**Regression Model**: Not Applicable (NA)
		
		Classification Model:
		- Accuracy Score: **92.4%**
		- Confusion Matrix: ✓□
		- Classification Report:
		  • Precision: 91%
		  • Recall: 92%
		  • F1 Score: 91.5%
			Confusion Matrix:
			
			Floral | 50 | 2 | 1 | 0
			Striped | 3 | 45 | 2 | 0
			Checked | 1 | 3 | 47 | 1
			Dotted | 0 | 0 | 2 | 48

2	**Tune the Model**	**Hyperparameter Tuning**: - Learning Rate: [0.001, 0.005, 0.01] → **0.005** - Batch Size: [16, 32, 64] → **32** - Epochs: [10, 20, 50] → **20** **Validation Method**: Stratified K-Fold (k=5)	Hyperparameter Tuning Table: Parameter Tested Values Best Value Learning Rate [0.001, 0.005, 0.01] 0.005 Batch Size [16, 32, 64] 32 Epochs [10, 20, 50] 20 Validation Method: Stratified K-Fold (k=5)