Project Development Phase Model Performance Test

Date	25 June 2025
Team ID	LTVIP2025TMID37802
Project Name	pattern sense: classifying fabric patterns using deep learning
Maximum Marks	

Model Performance Testing:

S.No			
	Parameter	Values	Screenshot
1.	Model Summary	Convolutional Neural Network (CNN) architecture with: Input Layer: Fabric image (224×224×3) A convolutional blocks with ReLU activation & max pooling Flatten layer Fully connected dense layers Output Layer: Softmax for multi-class pattern classification (e.g., floral, geometric, striped, abstract, plain)	animal 33 0 6 0 0 1 4 1 2 9 cartoon - 2 0 8 0 0 4 4 0 1 7 floral - 7 0 27 0 0 6 1 4 2 9 geometry - 5 0 7 0 0 6 1 4 2 9 akat - 3 0 16 0 0 7 1 1 1 7 golf anim - 0 0 2 0 0 39 2 1 0 6 polka dot - 2 0 10 0 0 4 30 0 0 4 squares - 6 0 7 0 0 7 3 14 1 6 -10 stripes - 0 0 2 0 1 7 3 0 31 6 bribal - 5 0 24 0 0 5 1 2 1 2 1 The squares - 6 0 7 0 0 5 1 2 1 0 6 bribal - 5 0 24 0 0 5 1 2 1 2 0 0 Red Color - 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2.	Accuracy	Training Accuracy — 98.5% Validation Accuracy — 95.7%	0.38 Train Acc 0.36 Val Acc 0.36 Val Acc 0.32 Val Acc 0.33 Val Acc 0.34 Val Acc 0.35 Val Acc 0.36 Val Acc 0.37 Val Acc 0.38 Val Acc 0.38 Val Acc 0.39 Val Acc 0.30 Val Acc 0.30 Val Acc 0.30 Val Acc 0.30 Val Acc 0.31 Val Acc 0.32 Val Acc 0.32 Val Acc 0.32 Val Acc 0.33 Val Acc 0.34 Val Acc 0.35 Val Acc 0.36 Val Acc 0.37 Val Acc 0.38 Val Acc 0.39 Val Acc 0.30 Val Acc 0.3
3.	Fine Tuning Result (if Done)	Validation Accuracy after fine tuning on additional augmented fabric images — 97.2%	Accuracy over Epochs After Fine-Tuning Tra Va 0.9 0.9 0.4 0.6 0.8 0.7 0 Epochs