## Project Development Phase Model Performance Test

Date	25 June 2025	
Team ID	LTVIP2025TMID35513	
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 - 13 0 6 0 0 1 4 1 2 9 - 35  Cartoon - 2 0 8 0 0 4 4 0 1 7 - 30  geometry - 5 0 7 0 0 6 1 4 2 9 - 25  gi ikat - 1 0 16 0 0 7 1 1 1 7 - 20  gi ikat - 1 0 16 0 0 7 1 1 1 7 - 20  gi ikat - 2 0 10 0 0 4 30 0 0 4 - 15  squares - 0 0 7 0 0 7 3 14 1 6 - 10  stripes - 0 0 2 0 1 7 3 0 31 6 - 5  tribal - 5 0 2 0 0 5 1 2 1 2 1 2 6  Fribal - 5 0 2 0 0 5 1 2 1 2 1 2 6  Fredicted
2.	Accuracy	Training Accuracy — 98.5% Validation Accuracy — 95.7%	Accuracy over Epochs  0.38  0.36  0.34  0.32  0.30  0.28  0.28  0.30  0.
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