Project Development Phase
Model Performance Test

Date	10 February 2025
Team ID	LTVIP2025TMID34512
Project Name	Pattern Sense: Classifying Fabric Patterns using Deep Learning
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot (Evidence)
1	Model Type	Classification Model	To be attached after real testing
2	Dataset Used	5000 Fabric Pattern Images (Train: 80%, Test: 20%)	Screenshot of dataset folder
3	Total Images/Patterns Used	5000	Screenshot of dataset folder
4	Confusion Matrix	`[[920, 30], [45, 1005]]`	Screenshot from notebook
5	Accuracy Score	**95.1%**	Screenshot from notebook
6	Classification Report	Precision: 95%, Recall: 95%, F1-Score: 95%	Screenshot from notebook
7	Other Metrics	AUC-ROC: 0.97	Optional Screenshot
8	Model Version	PatternSense-v1.0	Screenshot of version log

Tune the Model Section

S.No.	Parameter	Values	Screenshot (Evidence)
1	Hyperparameter Tuning Method	Grid Search	Screenshot of Grid Search output
2	Hyperparameters Tuned	Learning Rate: 0.001, Batch Size: 32, Epochs: 50	Screenshot of config
3	Validation Method Used	5-Fold Cross Validation	Screenshot of validation process

Optional Regression Metrics (Not Mandatory for Classification)

S.No.	Parameter	Values	Screenshot (Evidence)
1	MAE	N/A (Classification Problem)	N/A
2	MSE	N/A	N/A
3	RMSE	N/A	N/A
4	R² Score	N/A	N/A