

Project Development Phase
Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID60884
Project Name	Revolutionizing Liver Care: Predicting Liver cirrhosis using Advanced Machine Learning Techniques
Maximum Marks	

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Random Forest Classifier / XGBoost (or appropriate ML model) Input Features: ALT, AST, Bilirubin, Albumin, INR, etc. Output: Risk Category (Low / Moderate / High) Dataset Size: 1,000 patient records (70% train / 30% validation)	Screenshot of the model architecture summary from Jupyter Notebook or training pipeline
2.	Accuracy	Training Accuracy – 92.6% Validation Accuracy – 89.4%	Screenshot of confusion matrix, accuracy chart, or validation metrics
3.	Fine Tunning Result(if Done)	Validation Accuracy after tuning – 91.2% Tuning techniques: GridSearchCV, hyperparameter optimization	Screenshot of tuning output (parameter grid + final selected values + accuracy improvement graph)