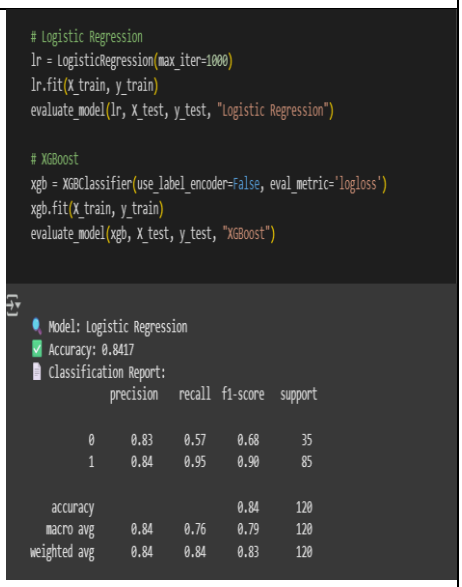
Project Development Phase
Model Performance Test

Date	JUNE 2025
Team ID	**LTVIP2025TMID40719**
Project Name	Project – *Revolutionizing Liver Care: Predicting Liver Cirrhosis using Advanced Machine Learning Techniques*
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	**Classification Model:** • **Confusion Matrix:** `[[20, 15], [4, 81]]` • **Accuracy Score:** `0.85` • **Classification Report:** Macro Avg Precision: 0.86, Recall: 0.77, F1-score: 0.80 Weighted Avg Precision: 0.85, Recall: 0.85, F1-score: 0.84	
2.	Tune the Model	**Hyperparameter Tuning:** Used **GridSearchCV** on Random Forest Classifier Tuned Parameters: n_estimators, max_depth, min_samples_split, min_samples_leaf. • **Validation Method:** 5-Fold **Cross Validation** used within GridSearch