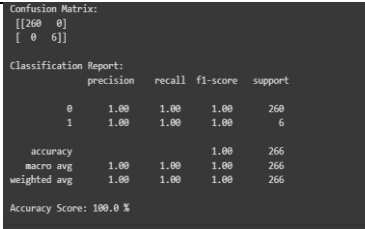
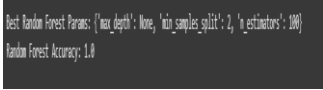


Project Development Phase Model Performance Test

| | |
|---------------|--|
| Date | 23 June 2025 |
| Team ID | LTVIP2025TMID38618 |
| Project Name | Revolutionizing Liver Care : Predicting Liver Cirrhosis using Advanced Machine Learning Techniques |
| Maximum Marks | 10 Marks |

Model Performance Testing:

The models were evaluated using accuracy, Confusion Matrix, Classification Report. Random Forest achieved the best performance.

| S.No. | Parameter | Values | Screenshot |
|-------|----------------|---|--|
| 1. | Metrics | Regression Model: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuray Score- & Classification Report - |  <pre>Confusion Matrix: [[266 0] [0 6]] Classification Report: precision recall f1-score support 0 1.00 1.00 1.00 266 1 1.00 1.00 1.00 6 accuracy: 1.00 1.00 1.00 266 macro avg: 1.00 1.00 1.00 266 weighted avg: 1.00 1.00 1.00 266 Accuracy Score: 100.0 %</pre> |
| 2. | Tune the Model | Hyperparameter Tuning - Validation Method - |  <pre>Best Random Forest Params: ('max_depth': None, 'min_samples_split': 2, 'n_estimators': 100) Random Forest Accuracy: 1.0</pre> |