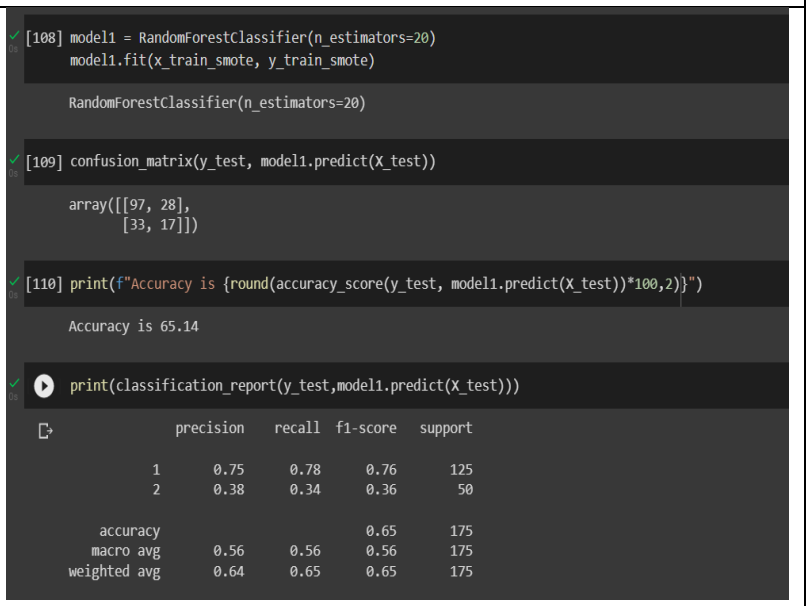
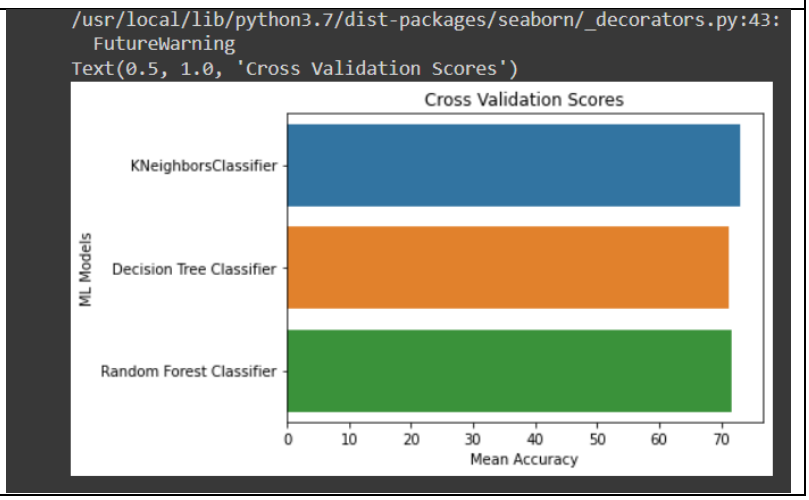
Project Development Phase
Model Performance Test

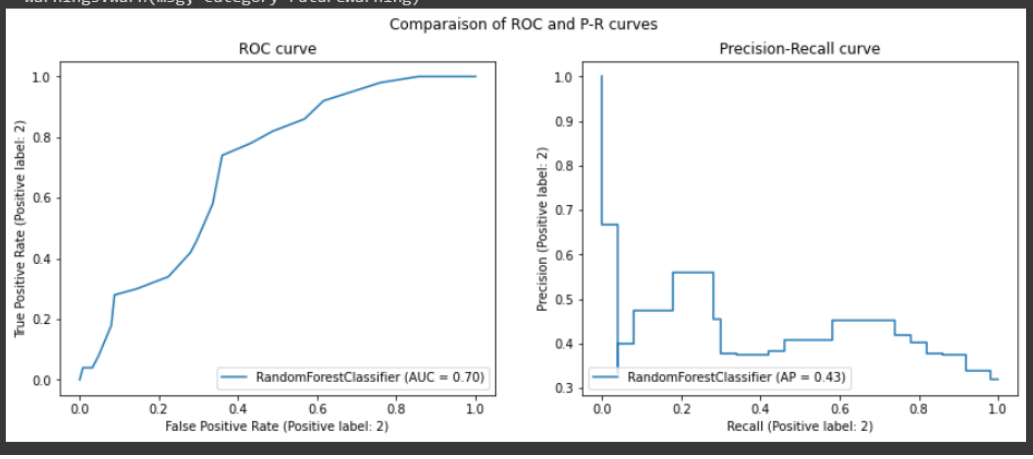
Date	19 November 2022
Team ID	PNT2022TMID04221
Project Name	Project – Statistical Machine Learning Approaches to Liver Disease Prediction
Maximum Marks	10 Marks

Model Performance Testing:

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

S. No.	Parameter	Values	Screenshot
1.	Metrics	**Classification Model:** Confusion Matrix -, Accuracy Score- & Classification Report -	
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	

ROC vs PR Curve

```
from matplotlib import pyplot as plt
from sklearn.datasets import make_classification
from sklearn.linear_model import LogisticRegression
from sklearn.model_selection import train_test_split
from sklearn.metrics import plot_roc_curve, plot_precision_recall_curve
fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(14, 5))
plot_roc_curve(model1, X_test, y_test, ax=ax1)
plot_precision_recall_curve(model1, X_test, y_test, ax=ax2)
ax1.set_title("ROC curve")
ax2.set_title("Precision-Recall curve")
fig.suptitle("Comparaison of ROC and P-R curves")
plt.show()
```

```
/usr/local/lib/python3.7/dist-packages/sklearn/utils/deprecation.py:87: FutureWarning: Function plot_roc_curve is deprecated;
  warnings.warn(msg, category=FutureWarning)
/usr/local/lib/python3.7/dist-packages/sklearn/utils/deprecation.py:87: FutureWarning: Function plot_precision_recall_curve is
  warnings.warn(msg, category=FutureWarning)
```