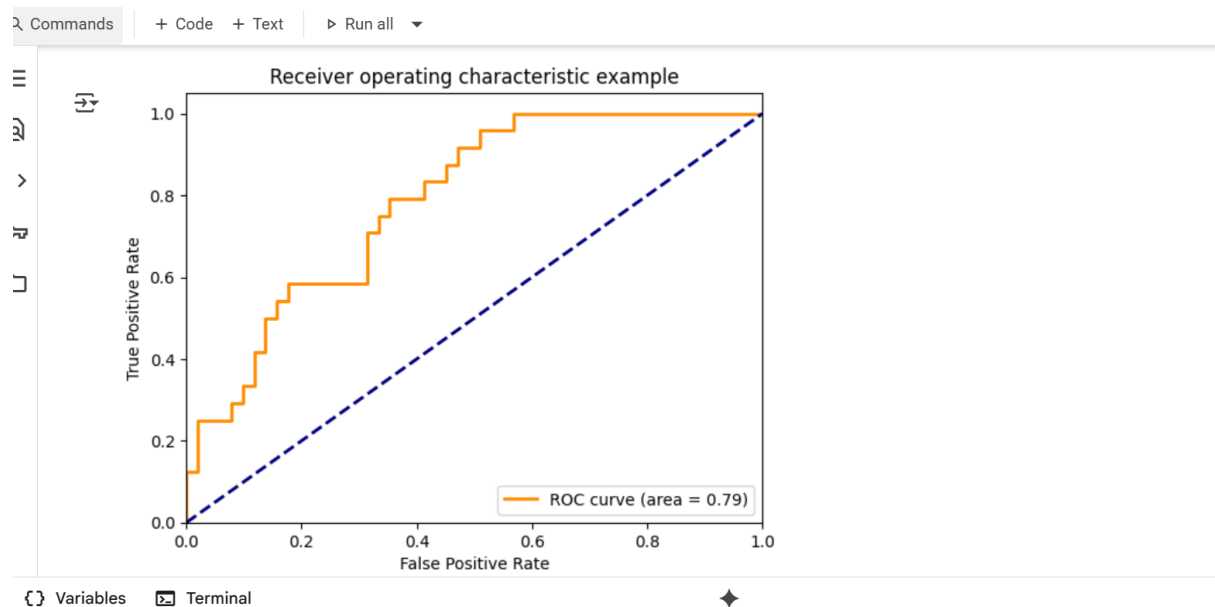


Activity 6

To assess model accuracy and reliability, we utilized metrics such as the F1-score for classification tasks and the R-squared value for regression analysis. These measures offered valuable insights into prediction quality and model performance. Additionally, a confusion matrix was created to visualize the distribution of correct and incorrect predictions, providing a clearer understanding of model behavior. This visualization emphasized the significance of thorough evaluation, particularly in fields where minimizing false positives and false negatives is critical for effective decision-making.





▼ RMSE



0s



```
[14] from sklearn.metrics import mean_squared_error
     y_true = [3, -0.5, 2, 7]
     y_pred = [2.5, 0.0, 2, 8]
     mean_squared_error(y_true, y_pred)
```

↕ 0.375

▼ MAE



0s



```
[15] from sklearn.metrics import mean_absolute_error
     y_true = [3, -0.5, 2, 7]
     y_pred = [2.5, 0.0, 2, 8]
     mean_absolute_error(y_true, y_pred)
```

↕ 0.5

▼ r squared

{ } Variables 📄 Terminal



▼ r squared



0s



```
[16] from sklearn.metrics import r2_score
     r2_score(y_true, y_pred)
```

↕ 0.9486081370449679