

```
# Classification report
print("Random Forest Report:\n", classification_report(y_test, y_pred_rf))
print("XGBoost Report:\n", classification_report(y_test, y_pred_xgb))

# Confusion Matrix
plt.figure(figsize=(12,5))
sns.heatmap(confusion_matrix(y_test, y_pred_xgb), annot=True, fmt='d', cmap='Blues')
plt.title('XGBoost Confusion Matrix')
plt.show()

# ROC AUC Score (for binary classification or each class in multiclass)
try:
    roc_auc = roc_auc_score(y_test, xgb.predict_proba(X_test), multi_class="ovr")
    print("XGBoost ROC AUC Score:", roc_auc)
except Exception as e:
    print("ROC AUC not supported for this setup:", e)
```