

Lesson 27: Classification Metrics

Data Science with Python – BSc Course

45 Minutes

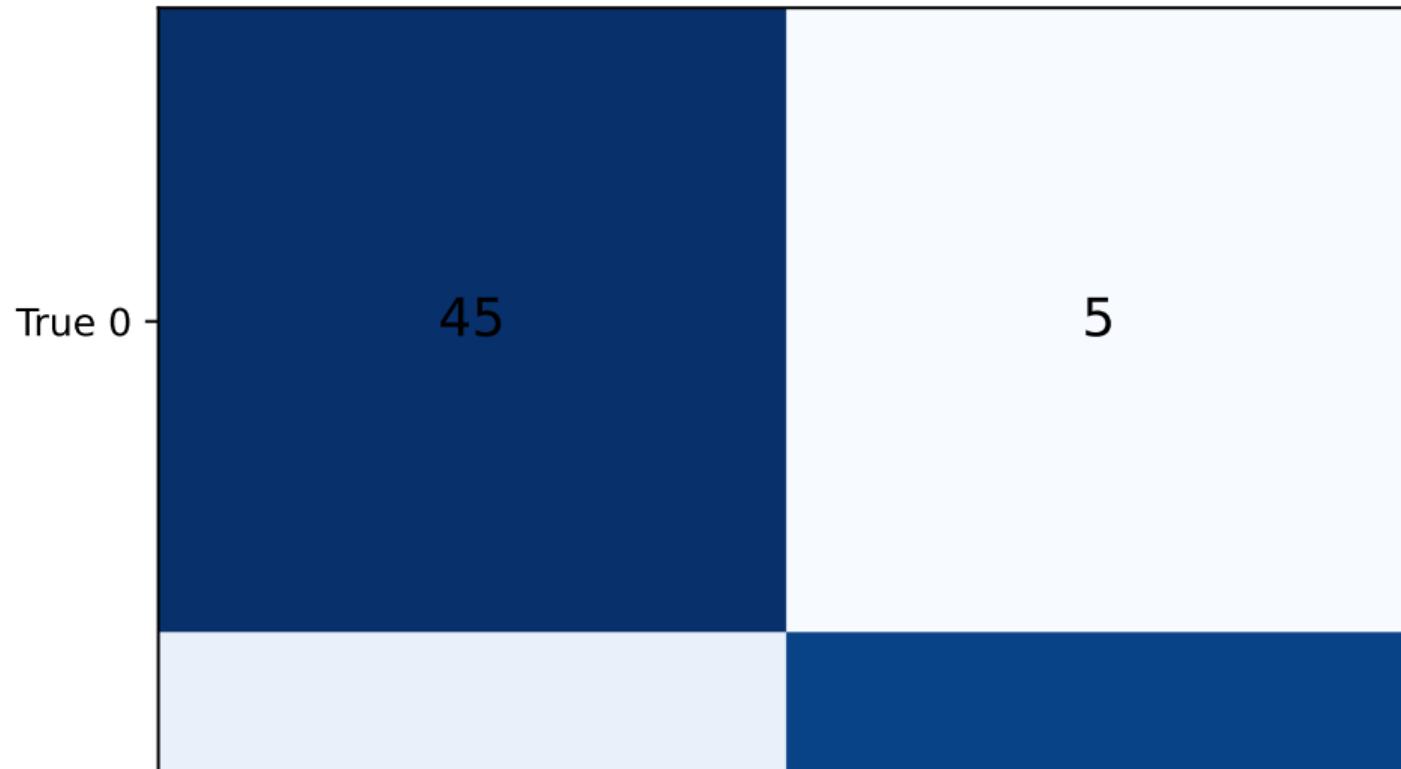
Learning Objectives

After this lesson, you will be able to:

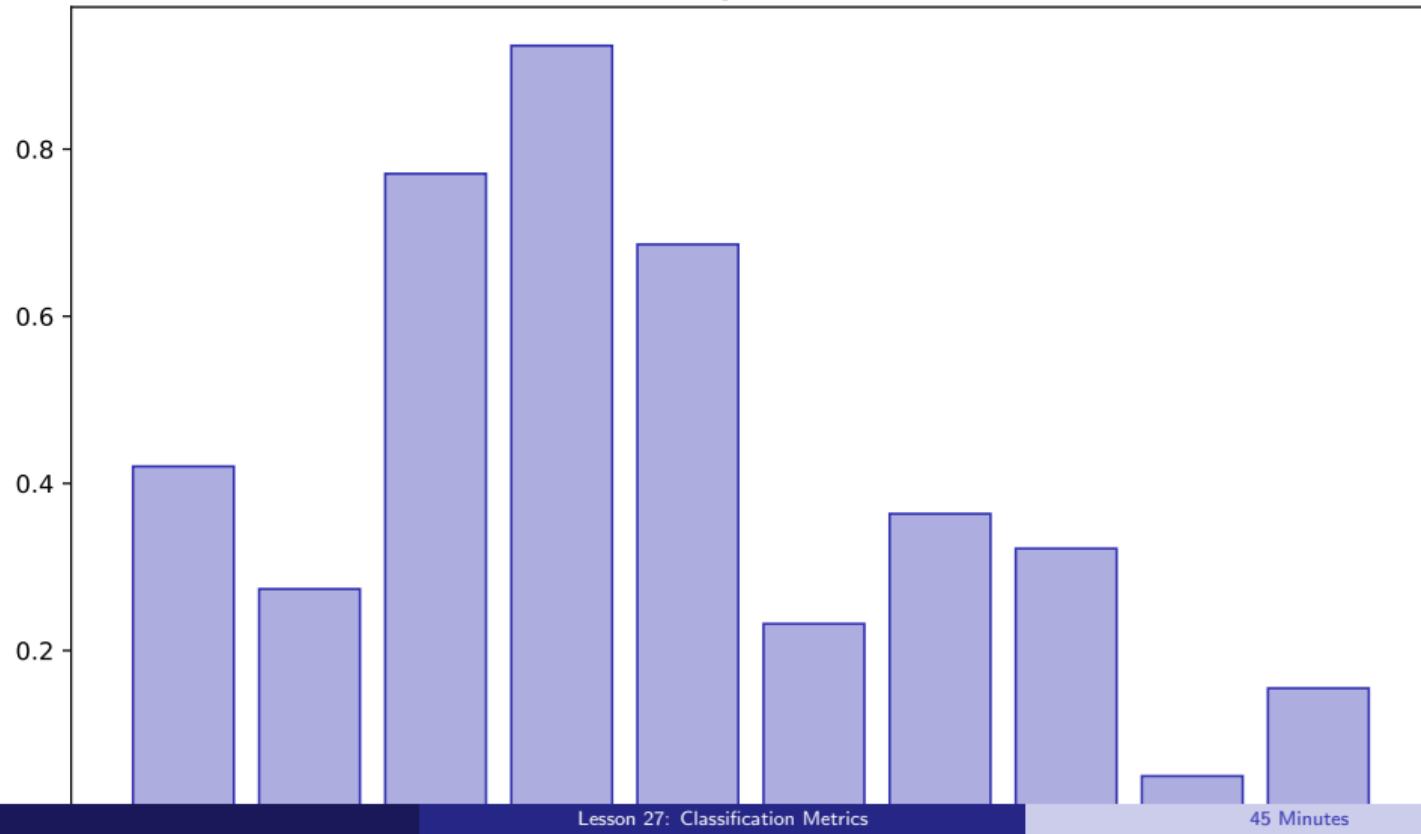
- Build confusion matrices
- Calculate precision and recall
- Plot ROC curves
- Handle class imbalance

Building towards your final project

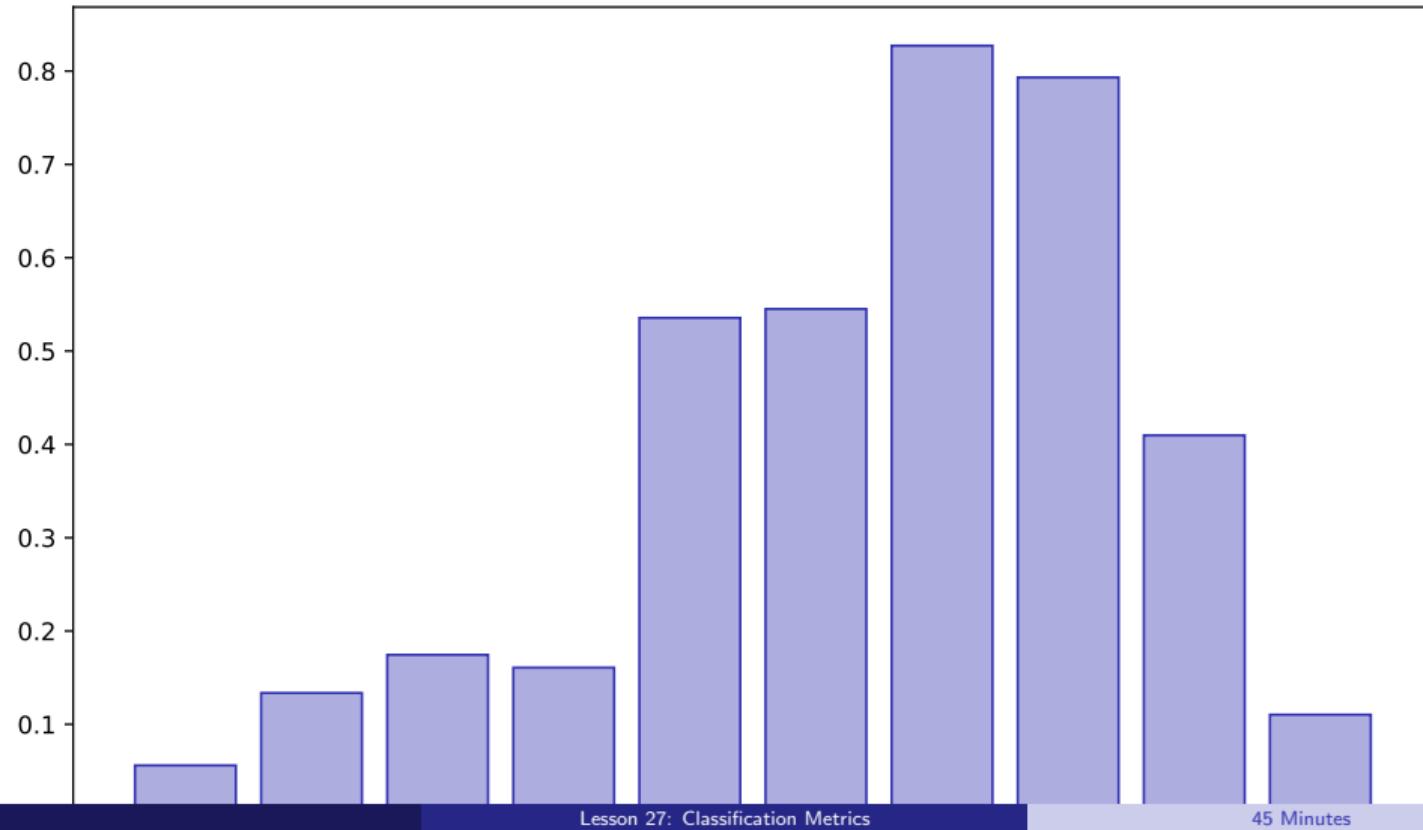
Confusion Matrix



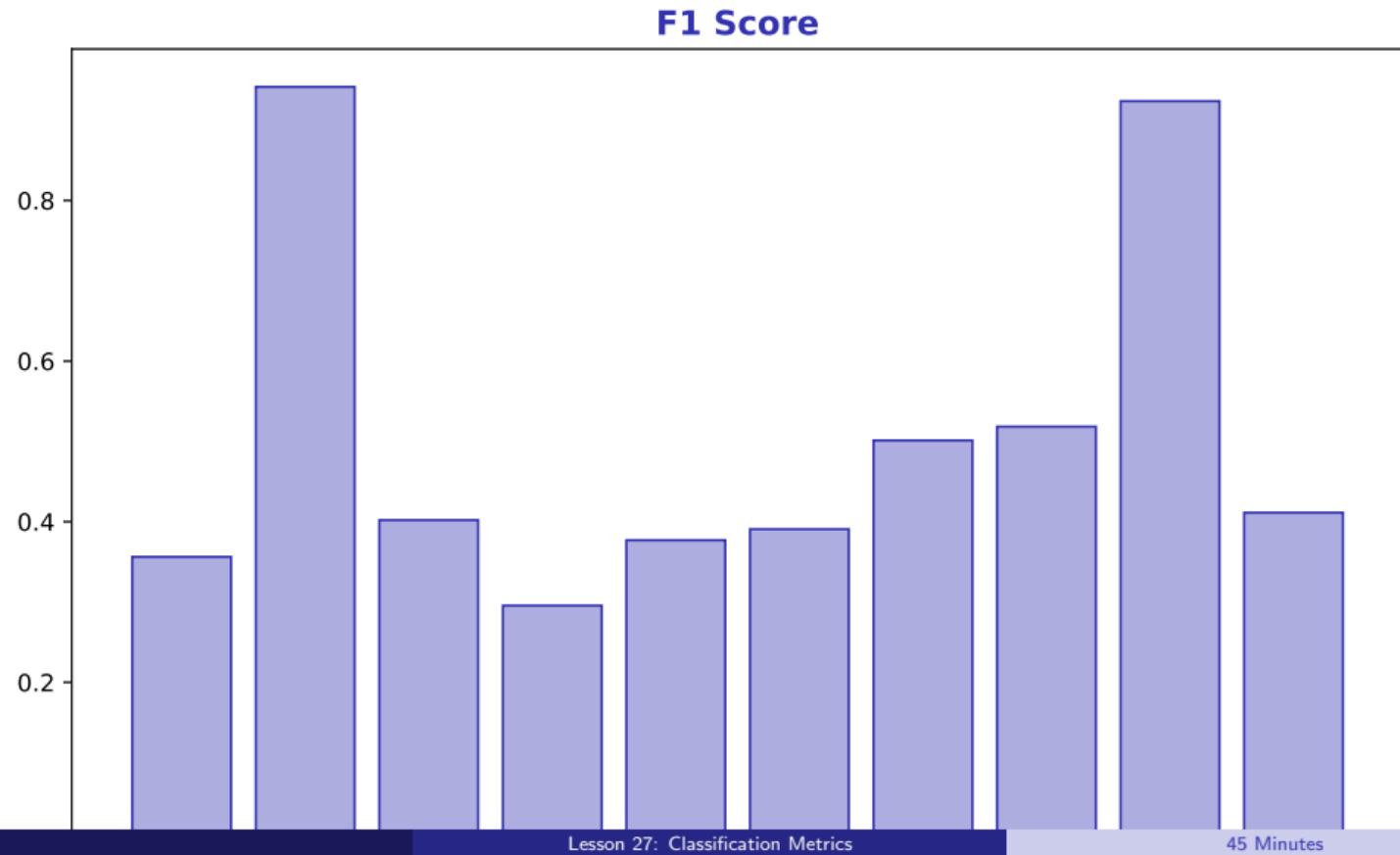
Accuracy Problems



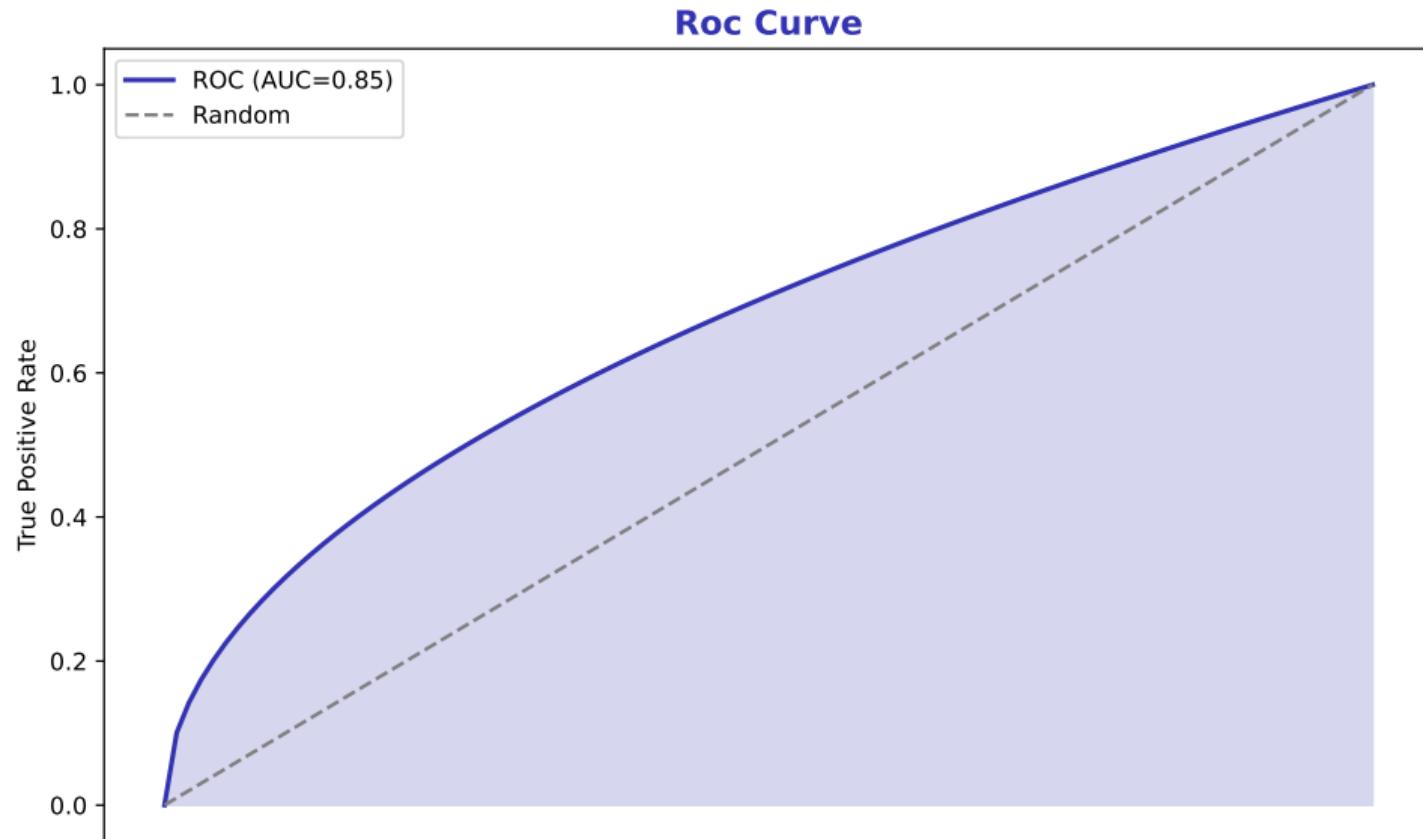
Precision Recall



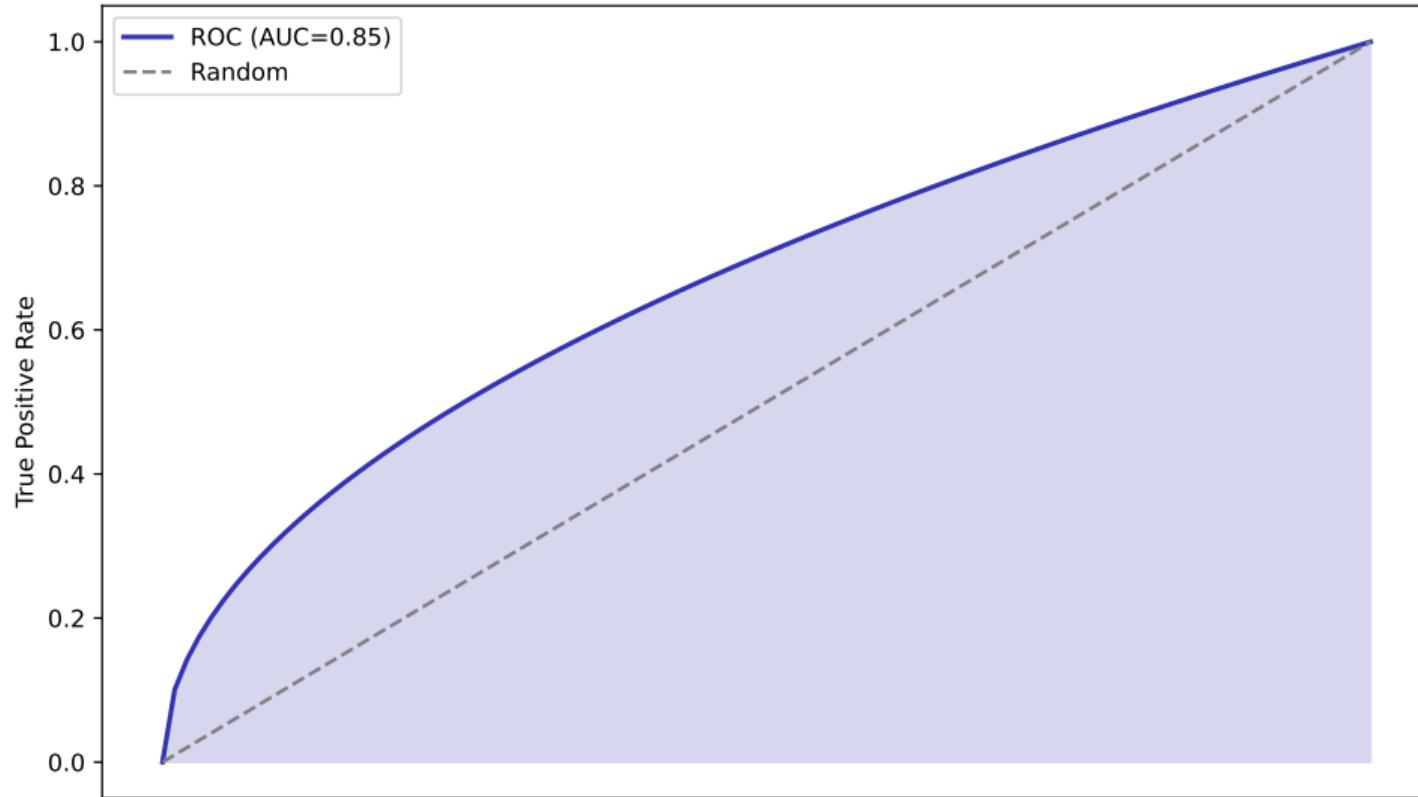
F1 Score



Roc Curve

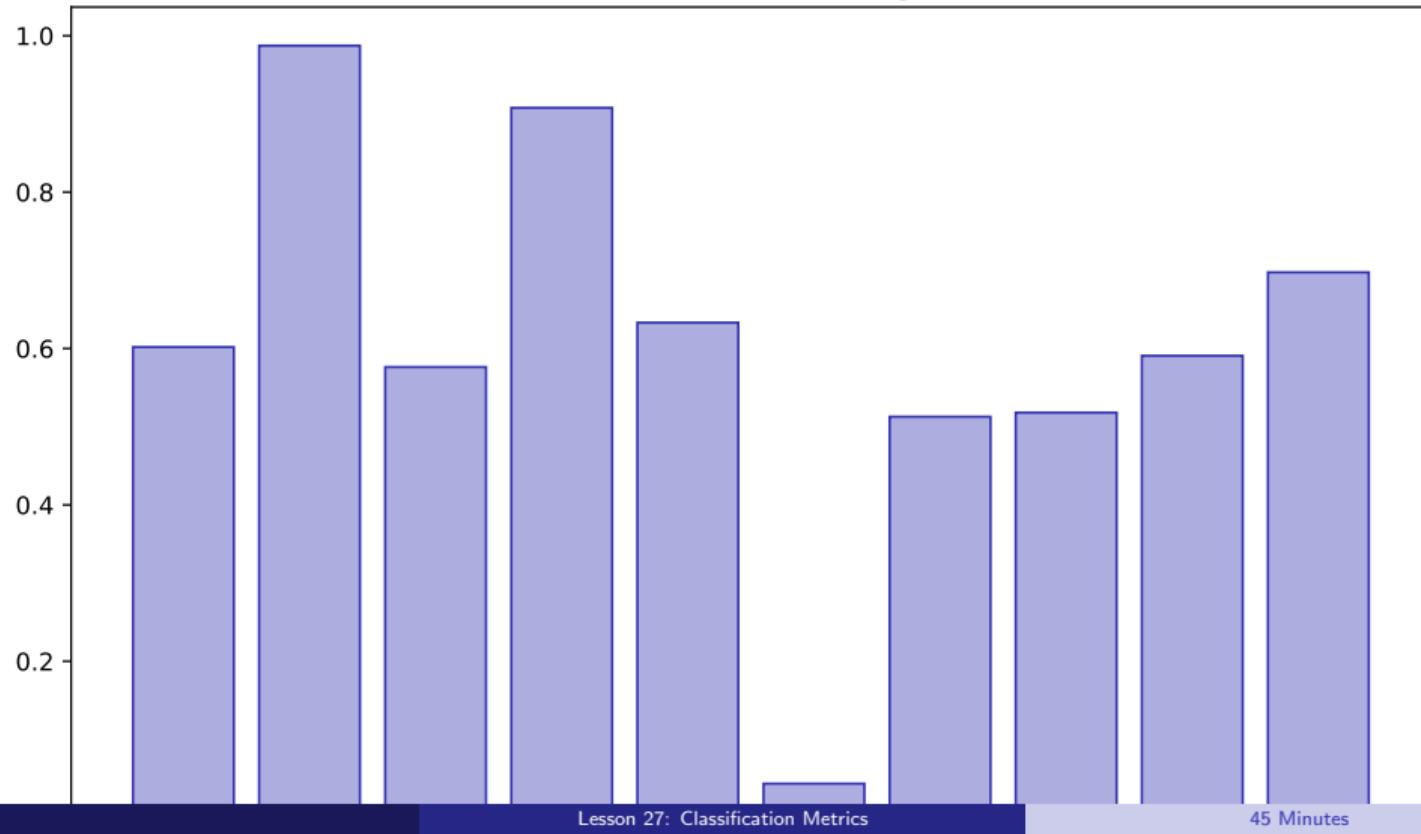


Auc Interpretation

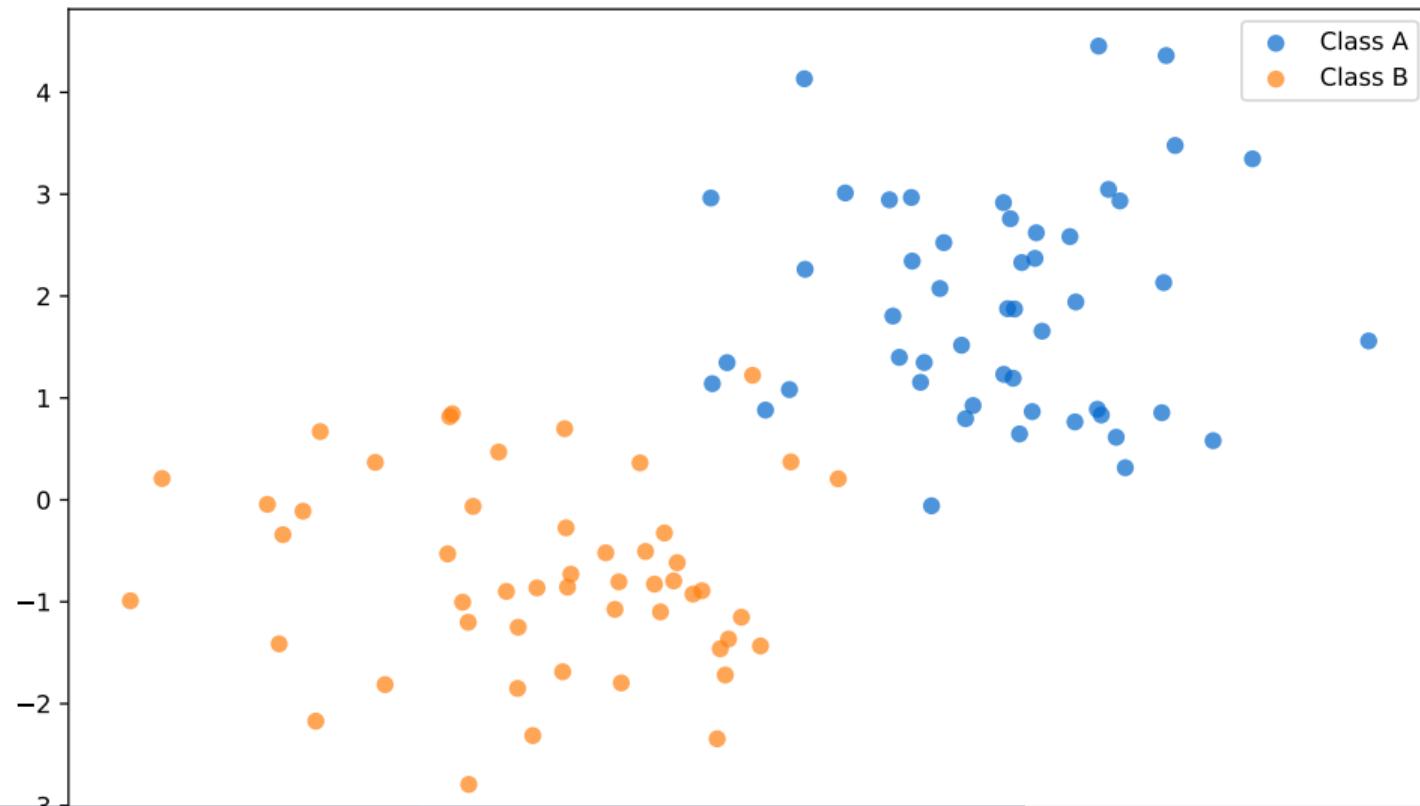


Threshold Tuning

Threshold Tuning



Finance Classification



Key Takeaways:

- Build confusion matrices
- Calculate precision and recall
- Plot ROC curves
- Handle class imbalance

Apply these skills in your final project