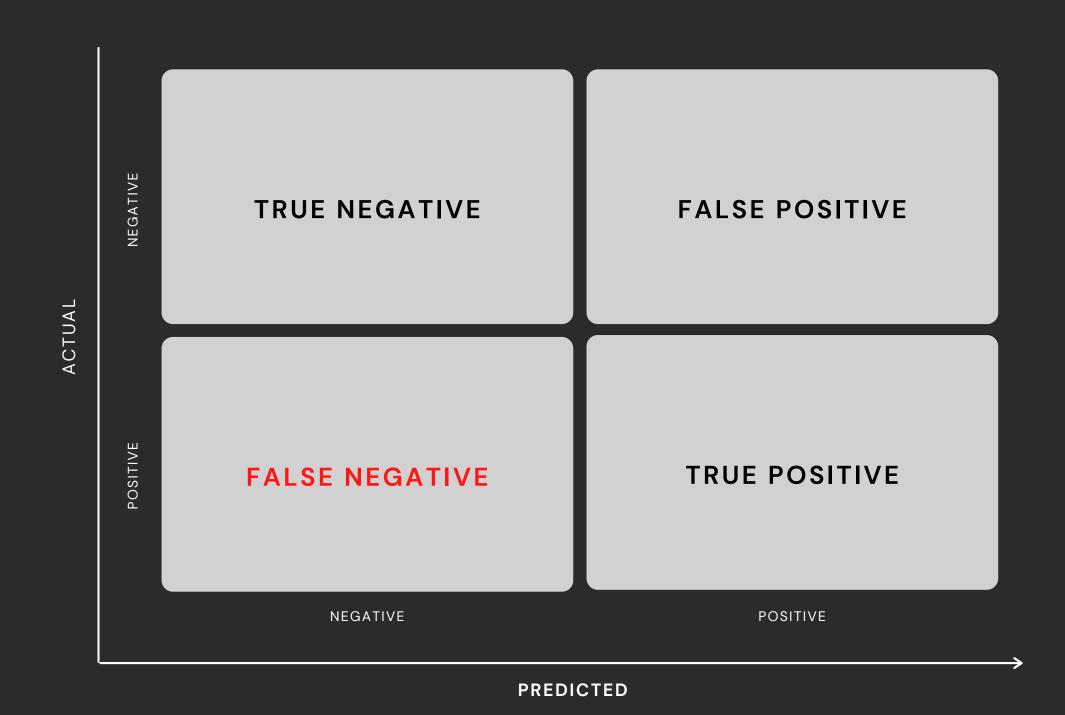
# Classifying Company Bankruptcies Using Random Forest

Jamie Stephens Metis June 11, 2021

# Business Utility

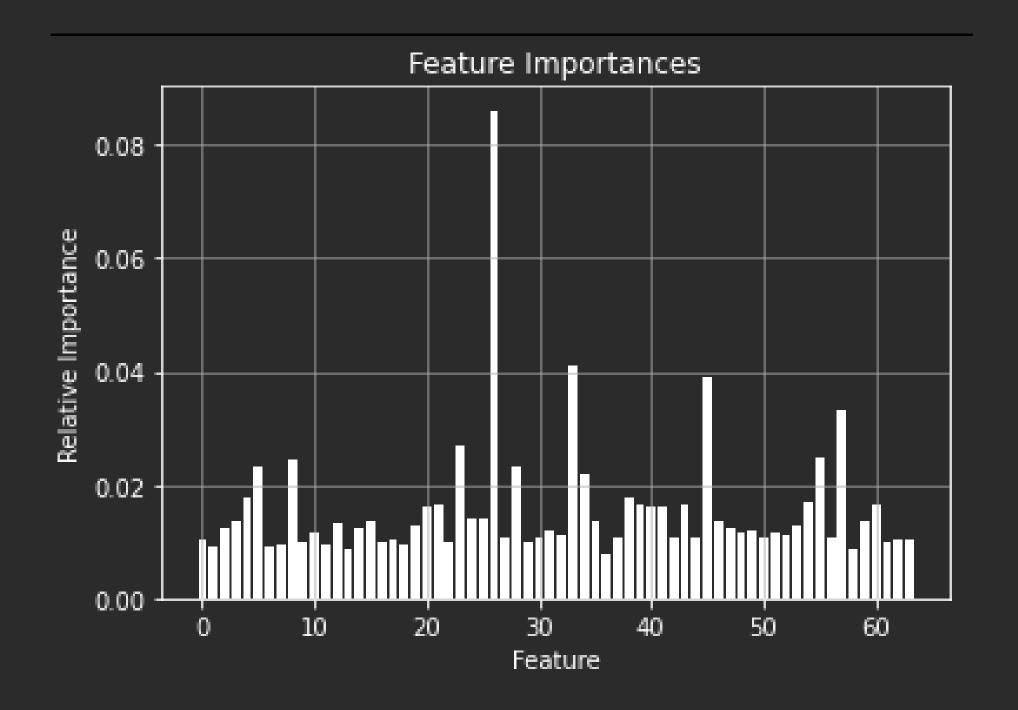


# Business Utility

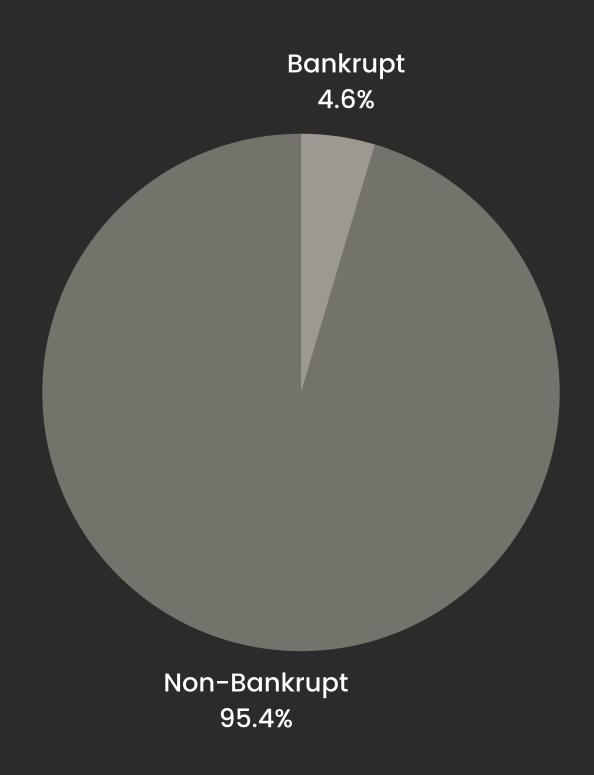


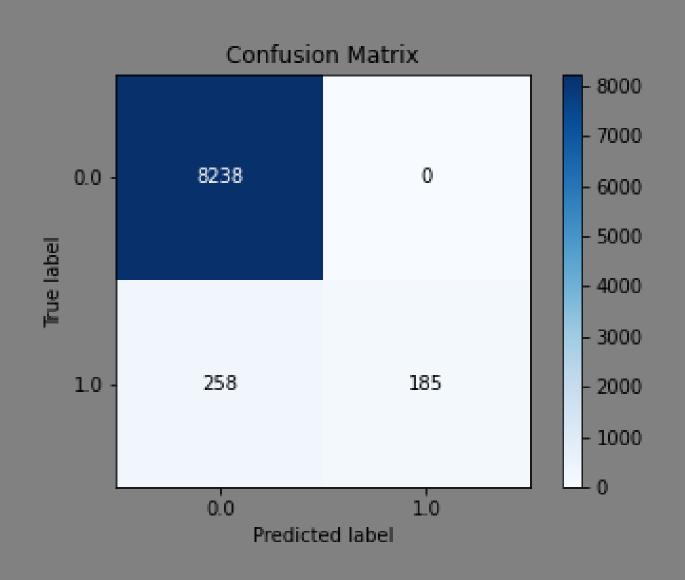
# Evaluating Features

Using sklearn.ensemble and matplotlib

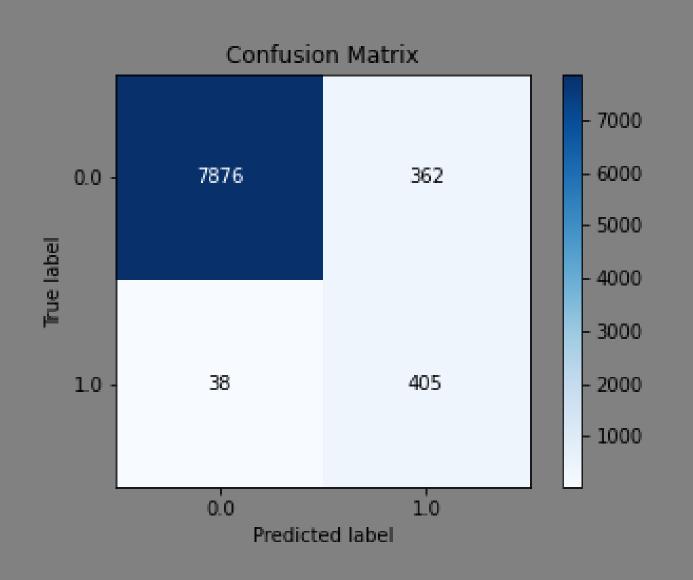


#### Imbalanced Outcomes

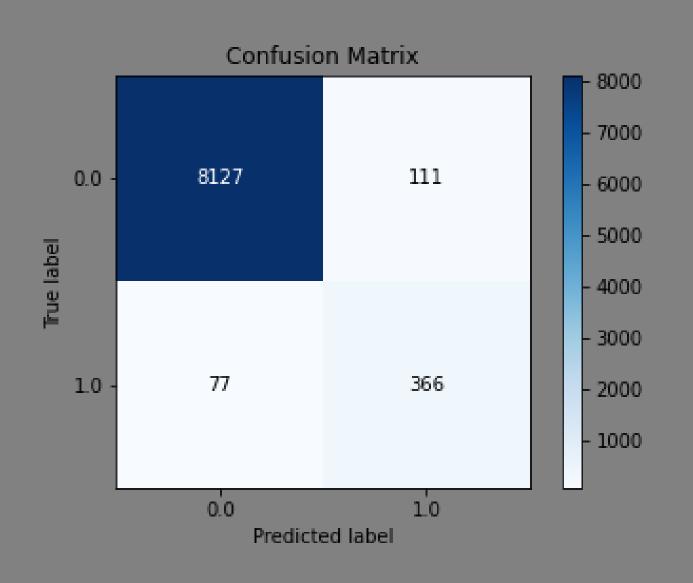




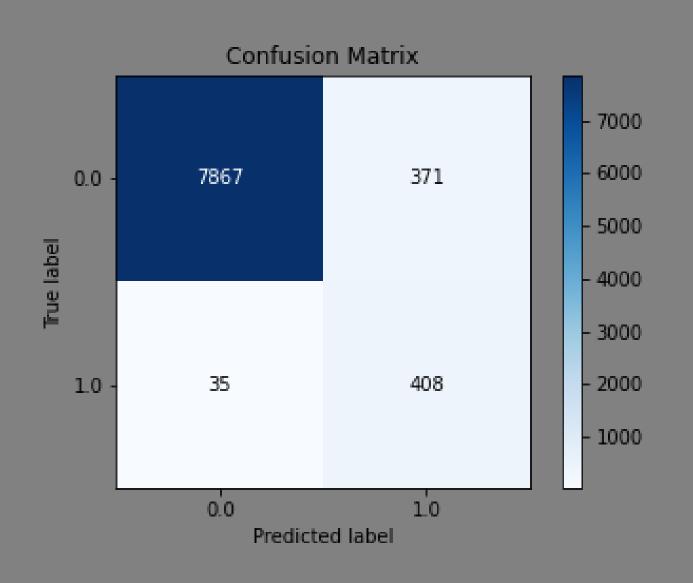
NO CLASS BALANCING



CLASS\_WEIGHTING = BALANCED



CLASS\_WEIGHTING = 0:1, 1:10



CLASS\_WEIGHTING = 0:1,1:20

#### References

**I**BANKRUPTCY DATA SET

EMERGING MARKETS INFORMATION SERVICE VIA THE UCI MACHINE LEARNING REPOSITORY

https://archive.ics.uci.edu/ml/datasets/Polish+companies+bankruptcy+data