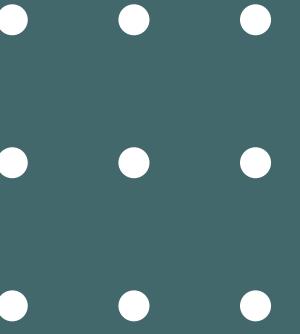




STUDENT MENTAL HEALTH ANALYSIS

ABOUT ME



Bobby Daly
Data Scientist

[LinkedIn](#)

[GitHub](#)





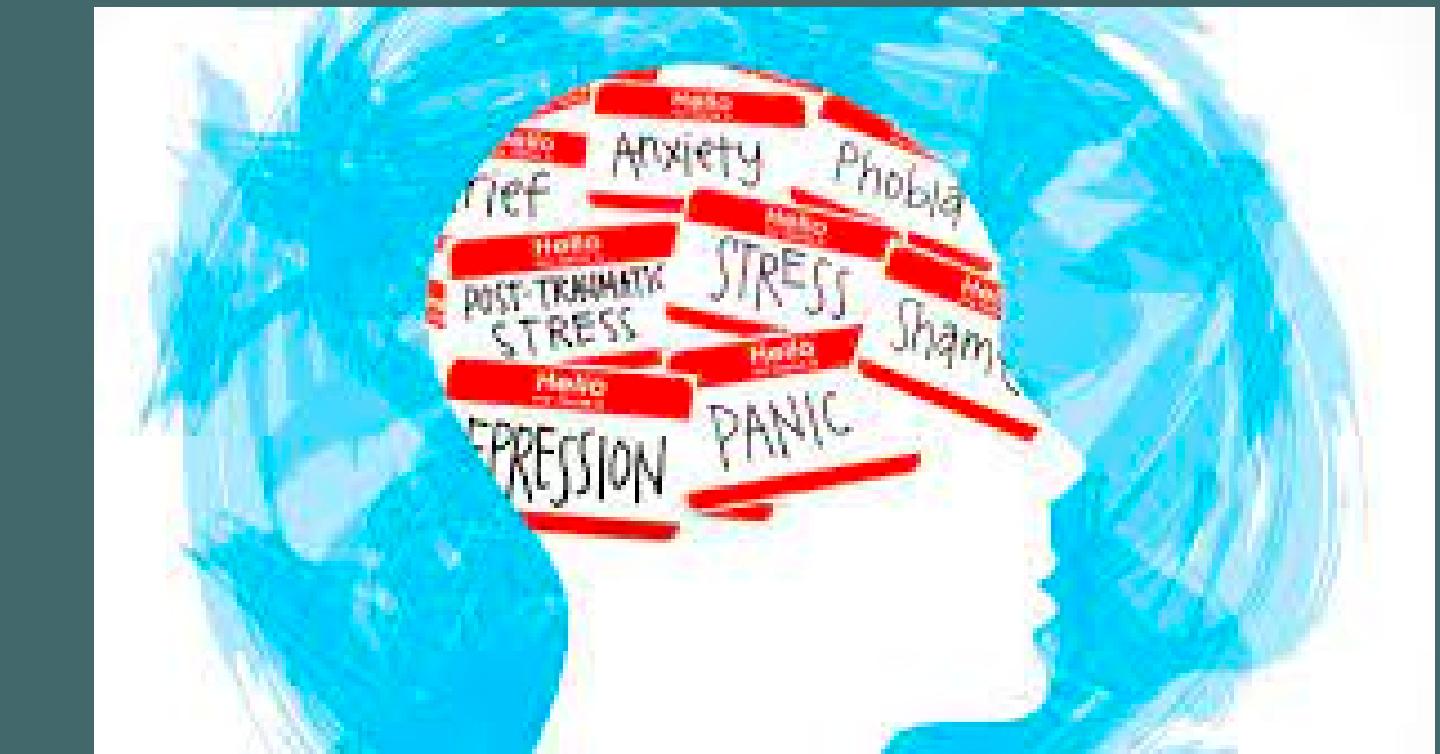
AGENDA

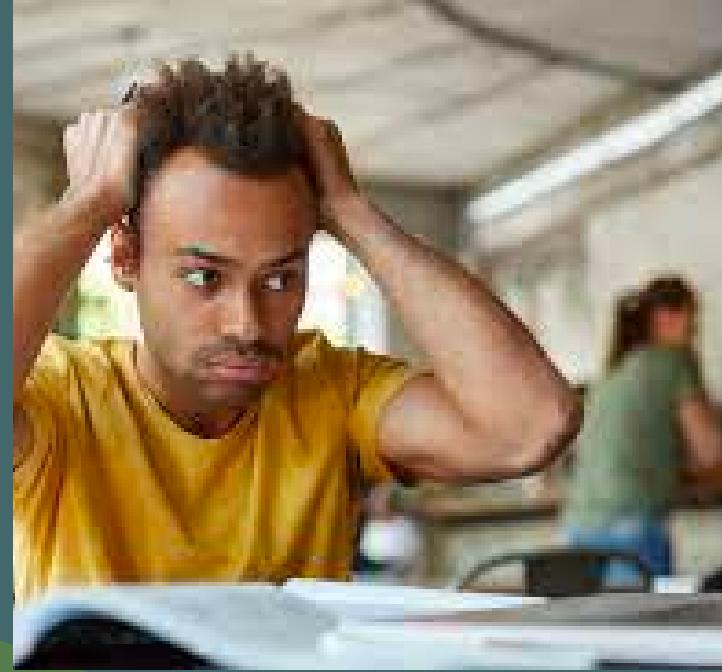
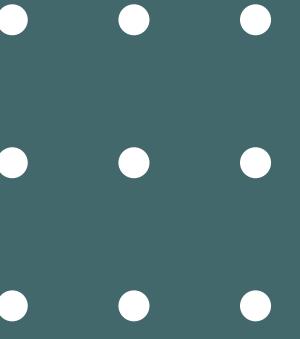
- 1 Business Problem
- 2 The Data
- 3 Data Analysis
- 4 Predictive Model
- 5 Recommendations
- 6 Next Steps



BUSINESS PROBLEM

Mental Health
Awareness





THE DATA

- 6,000+ Student Mental Health Surveys

kaggle™

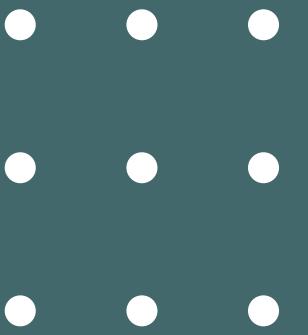
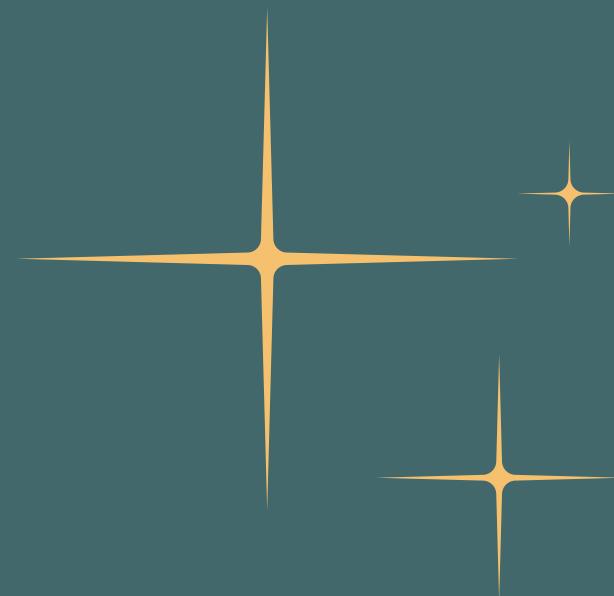
DATA PREPARATION



- Depression Risk Binary
- One Hot Encoding
- Ordinal Encoding
- Scaling

DATA ANALYSIS

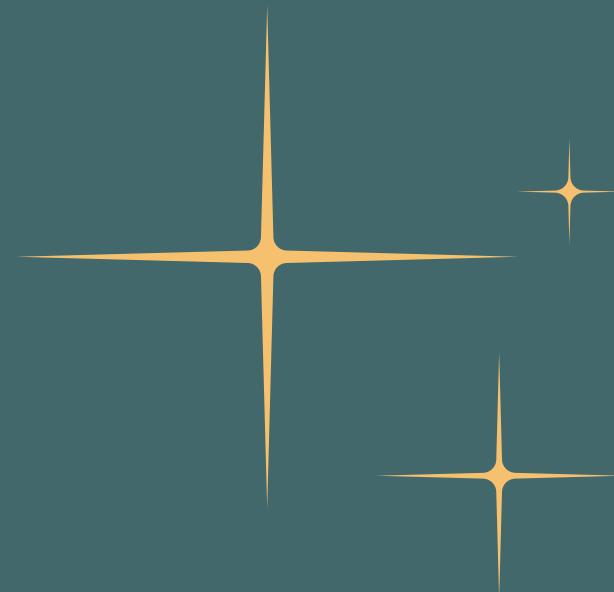
Findings:



DATA ANALYSIS

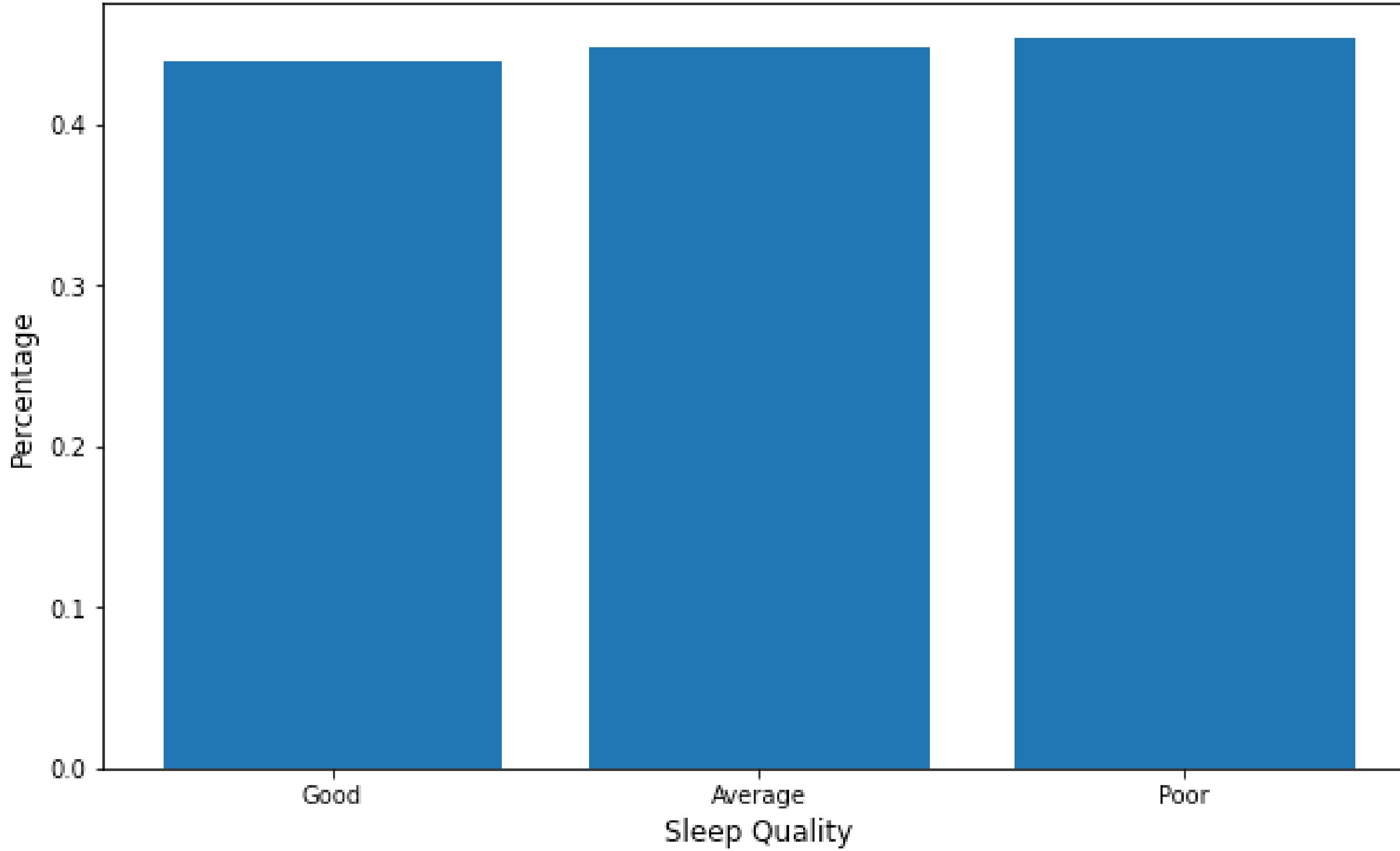
Findings:

- Humans are multi-faceted

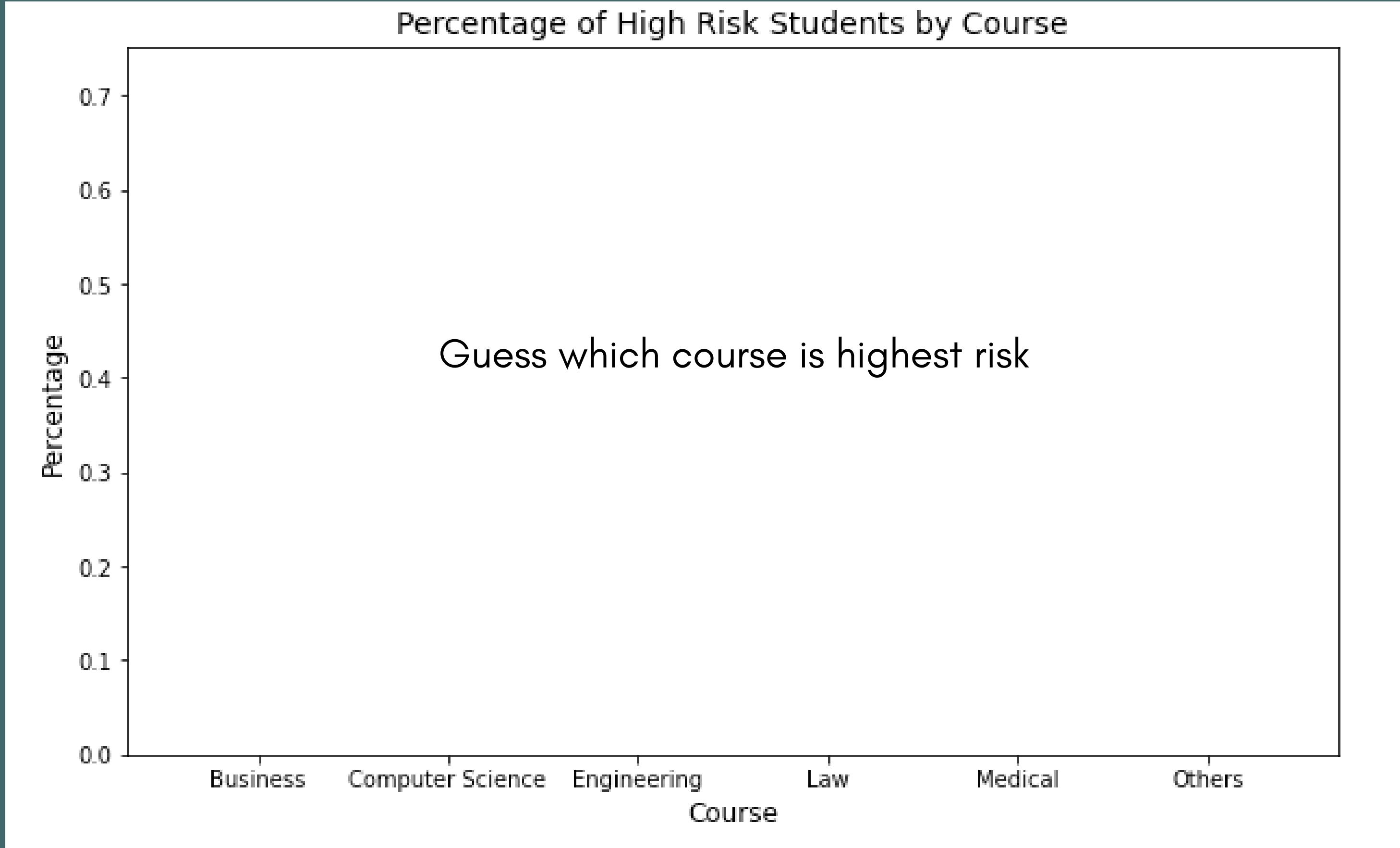


HIGH RISK SLEEP QUALITY

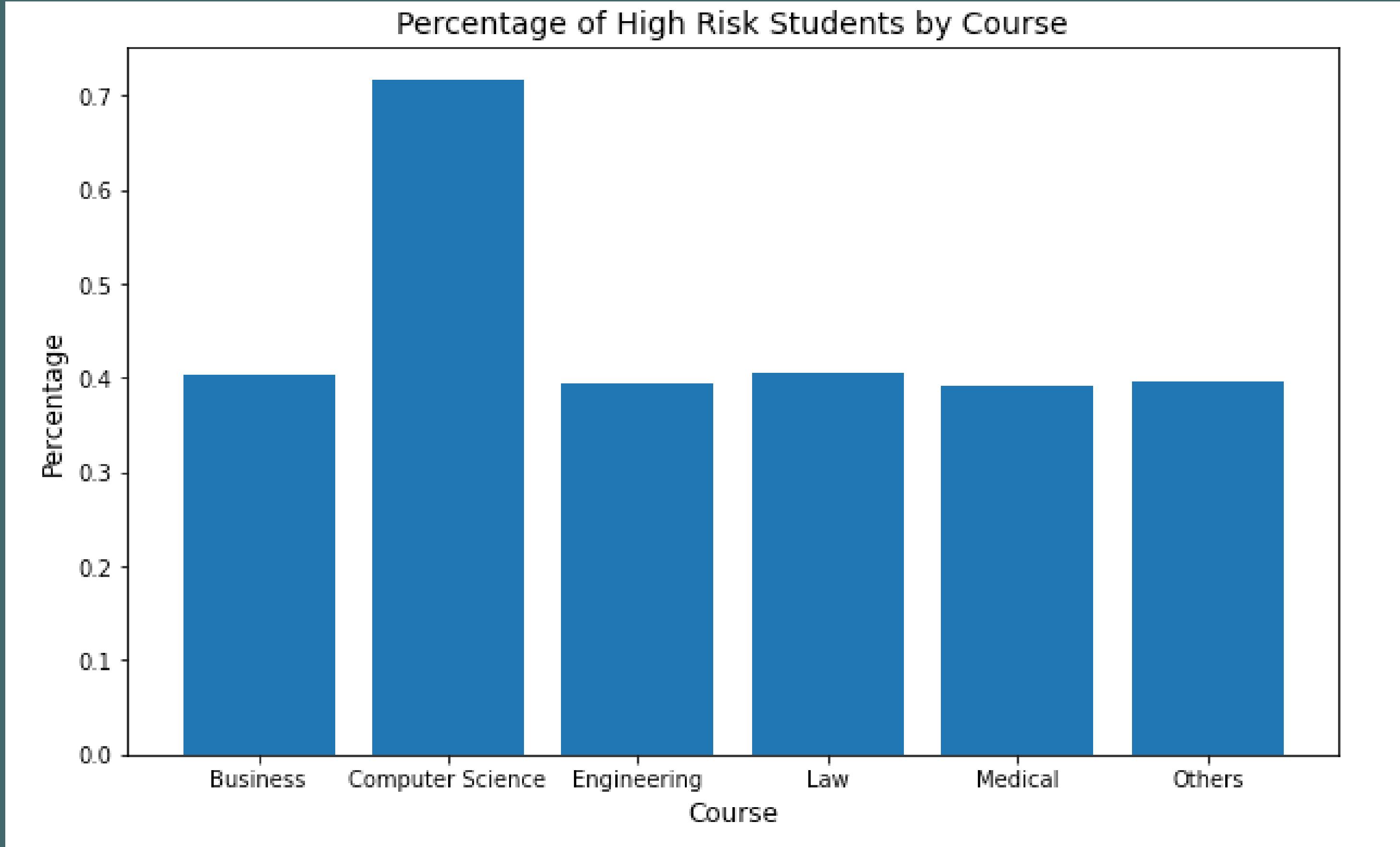
Percentage of High Risk Students by Sleep Quality



HIGH RISK COURSE



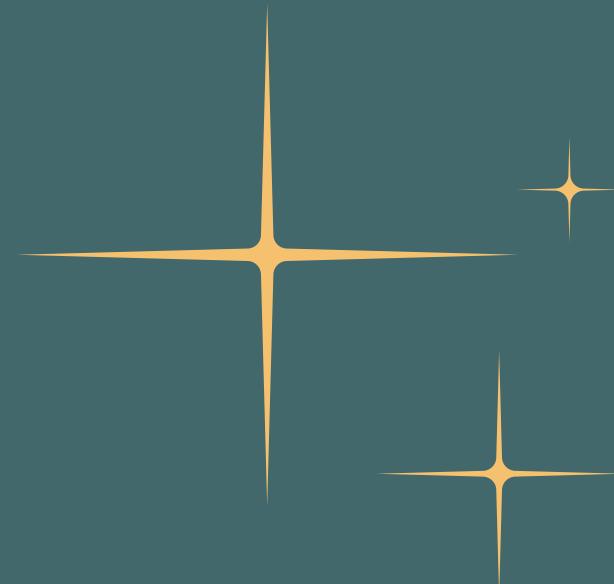
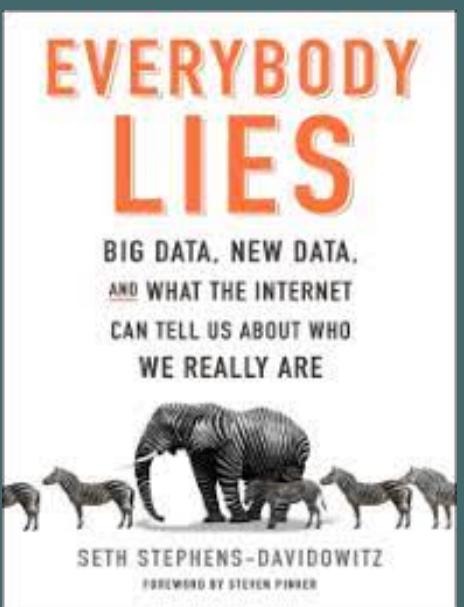
HIGH RISK COURSE



DATA ANALYSIS

Findings:

- Humans are multi-faceted
- Humans lie



HIGH RISK SUBSTANCE USE

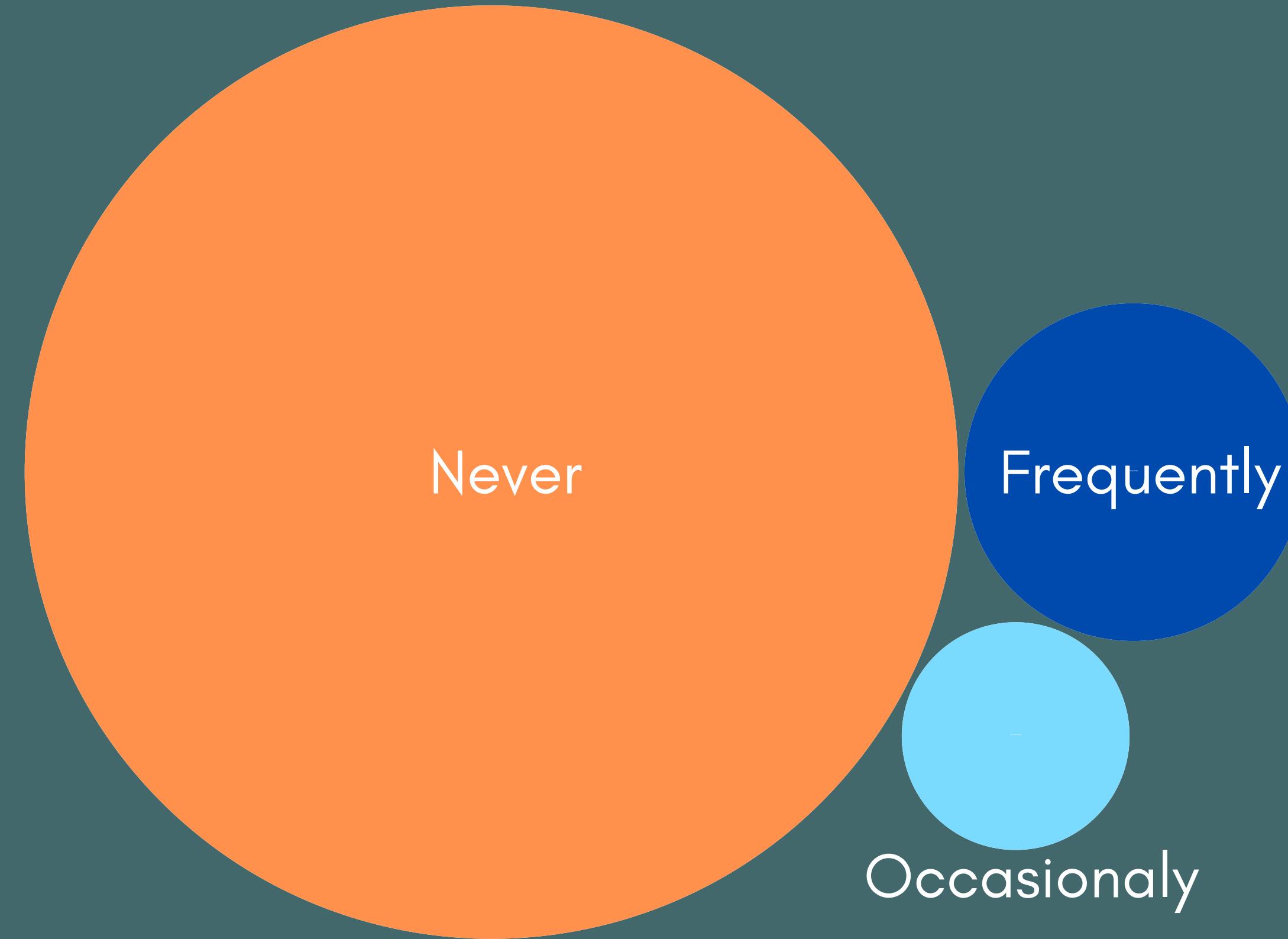
Guess the spread

Never

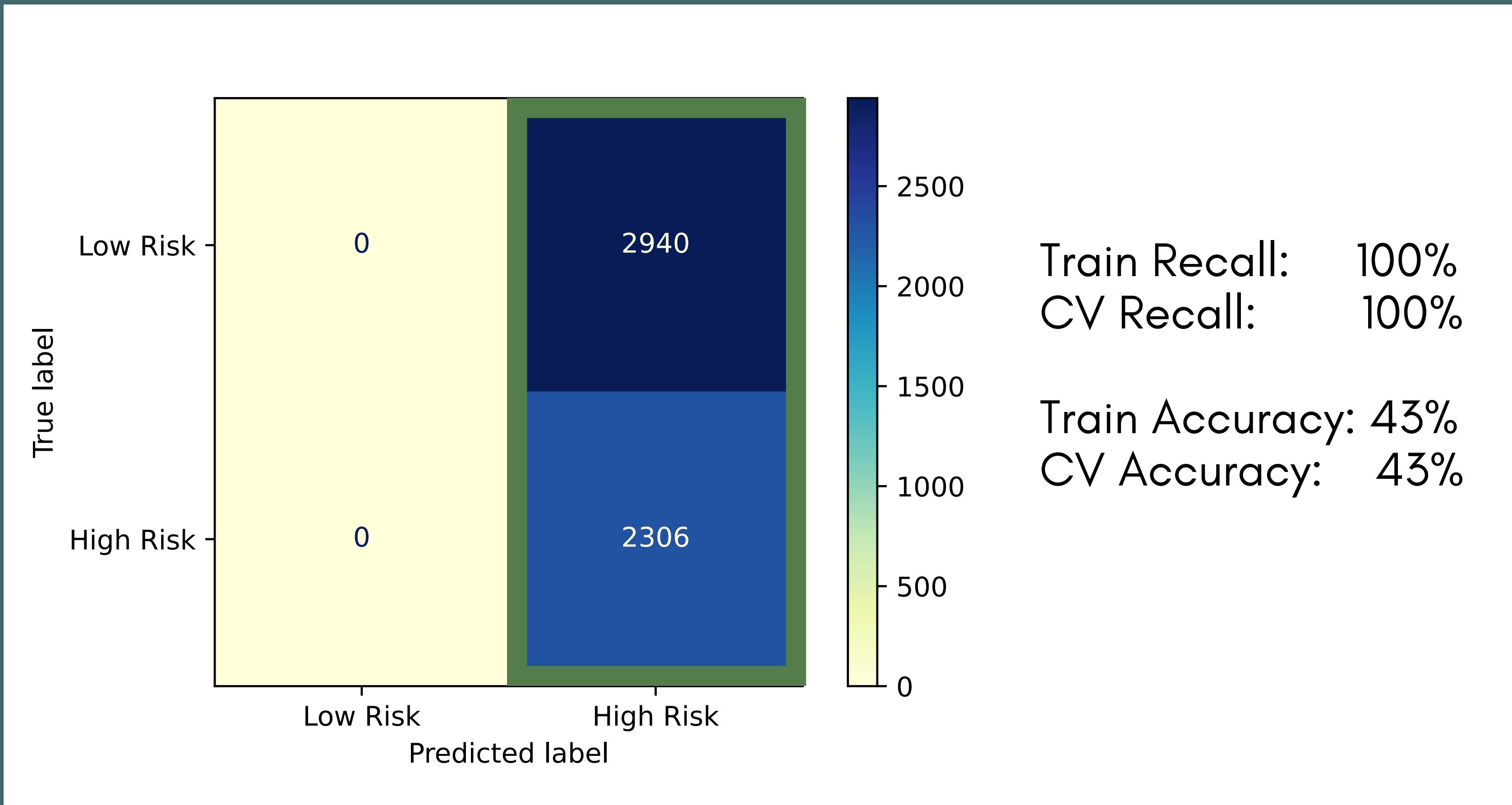
Occasionally

Frequently

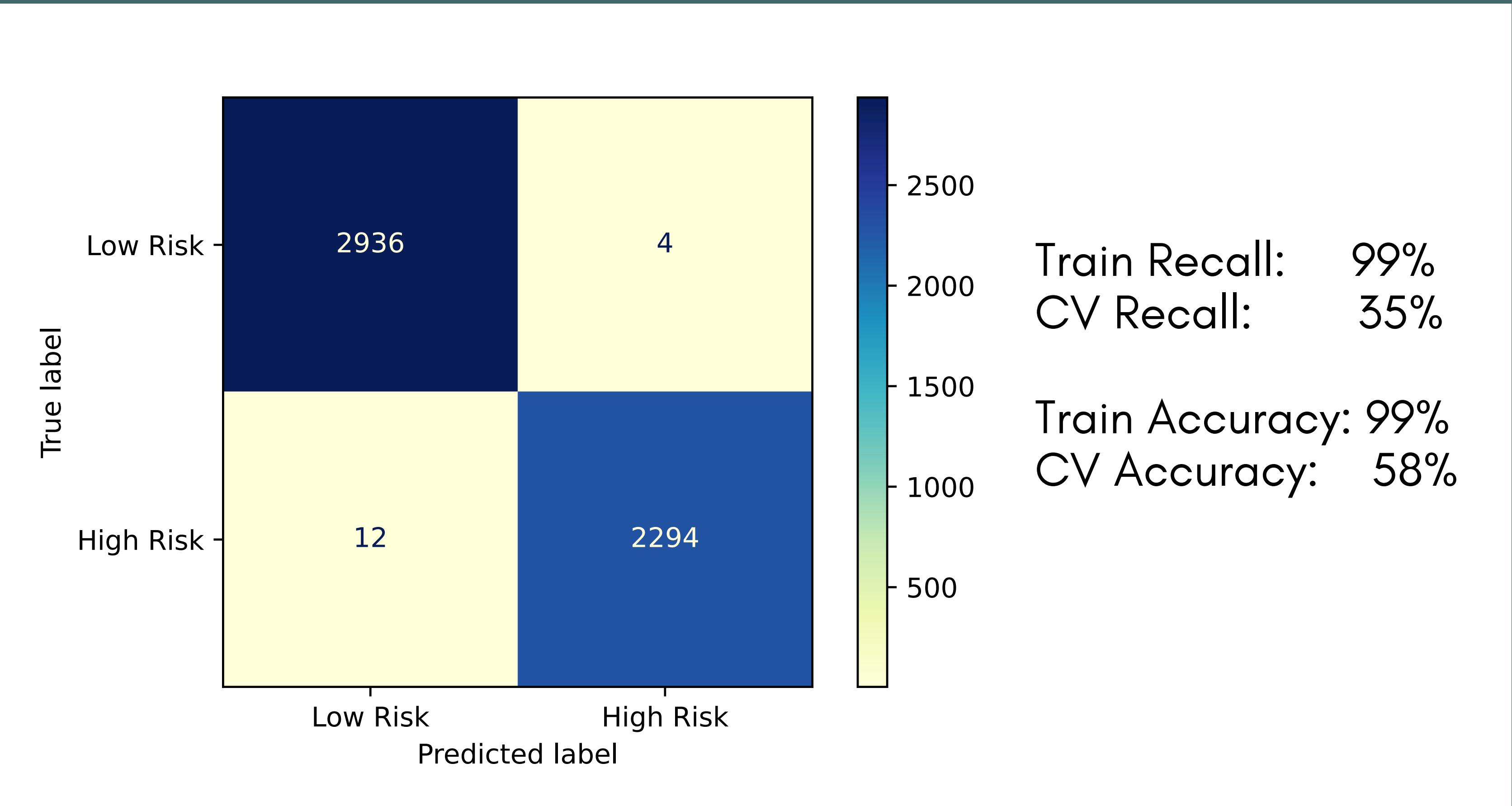
HIGH RISK SUBSTANCE USE



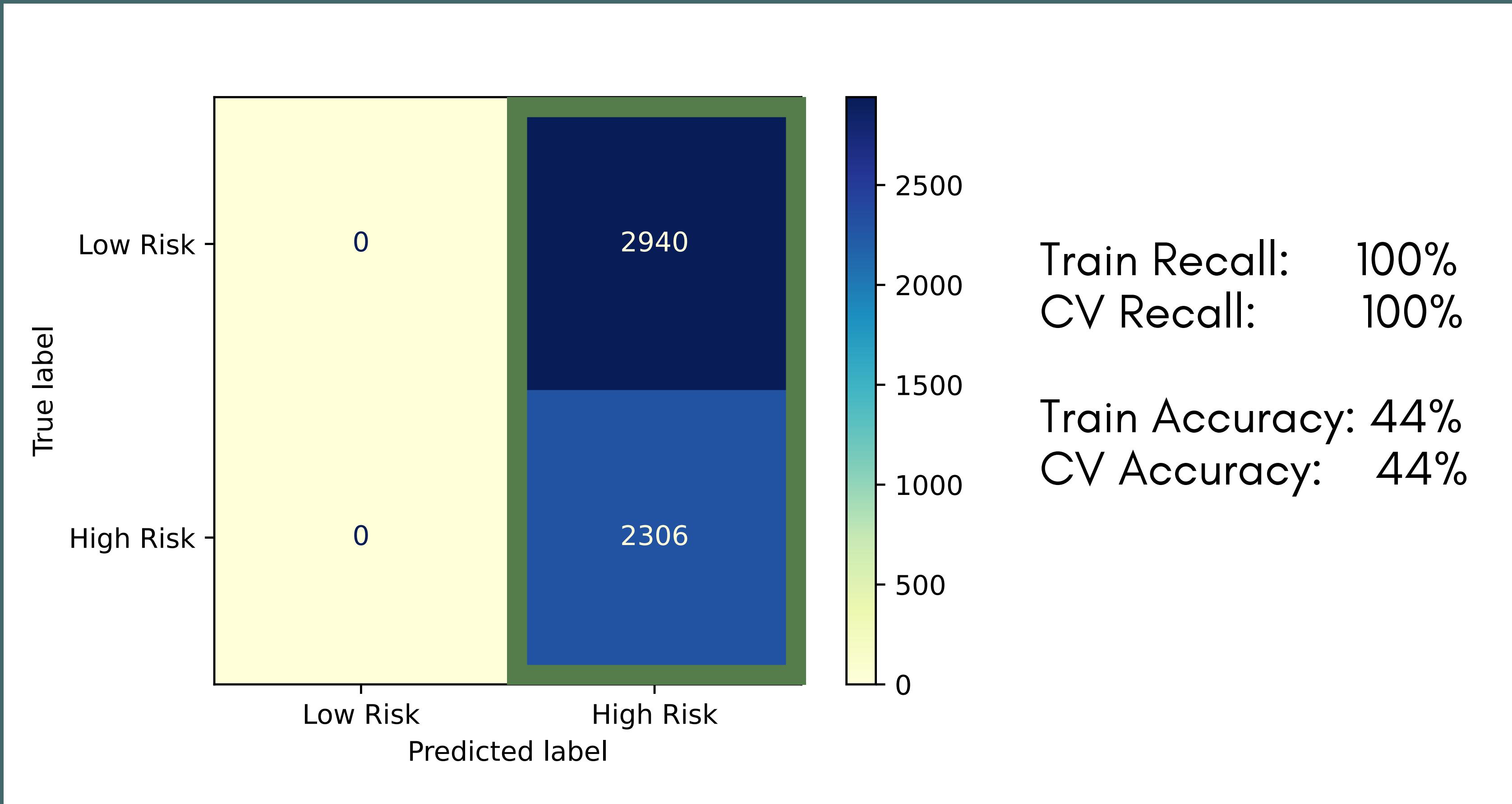
DUMMY MODEL



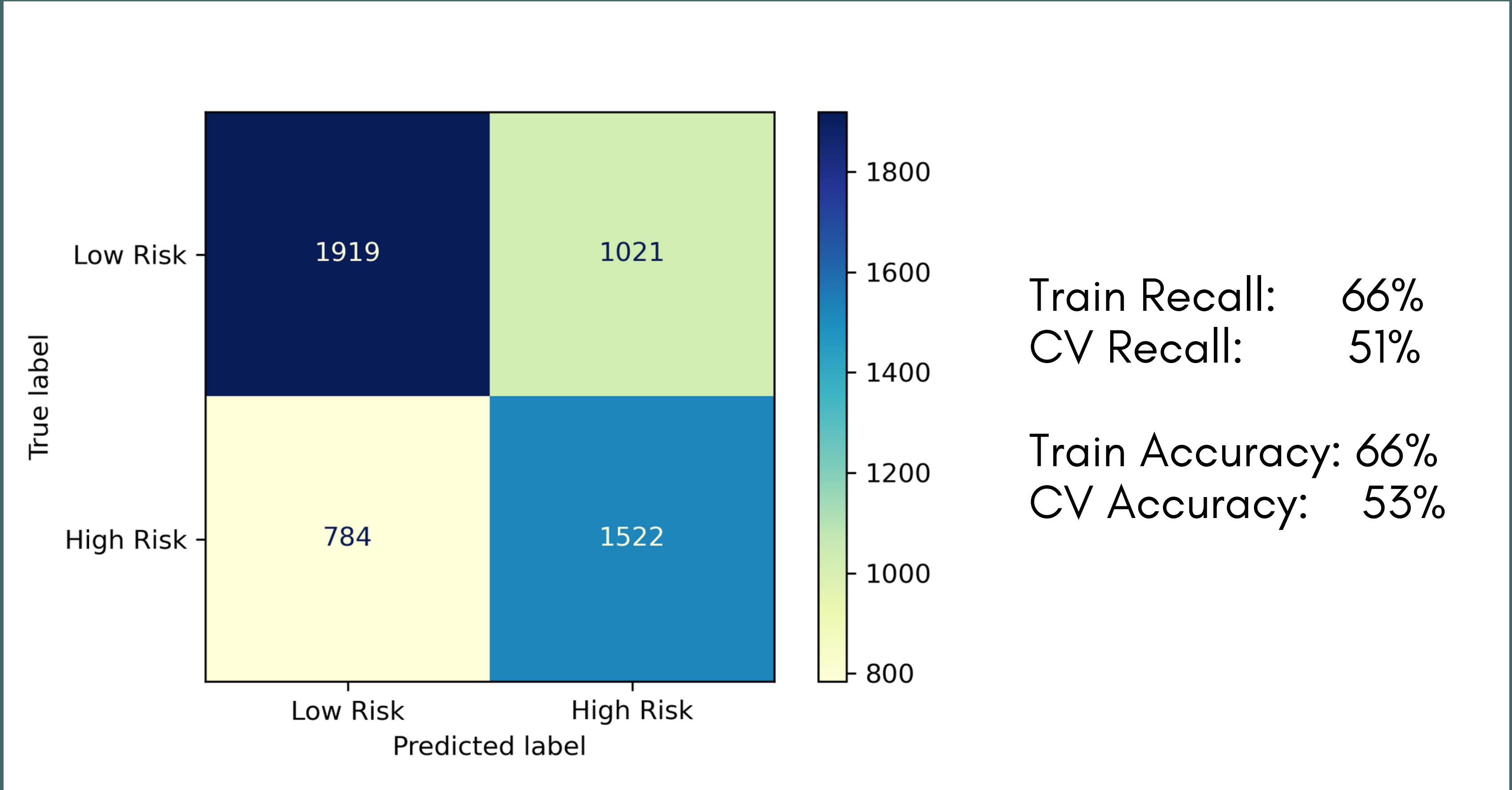
RANDOM FOREST



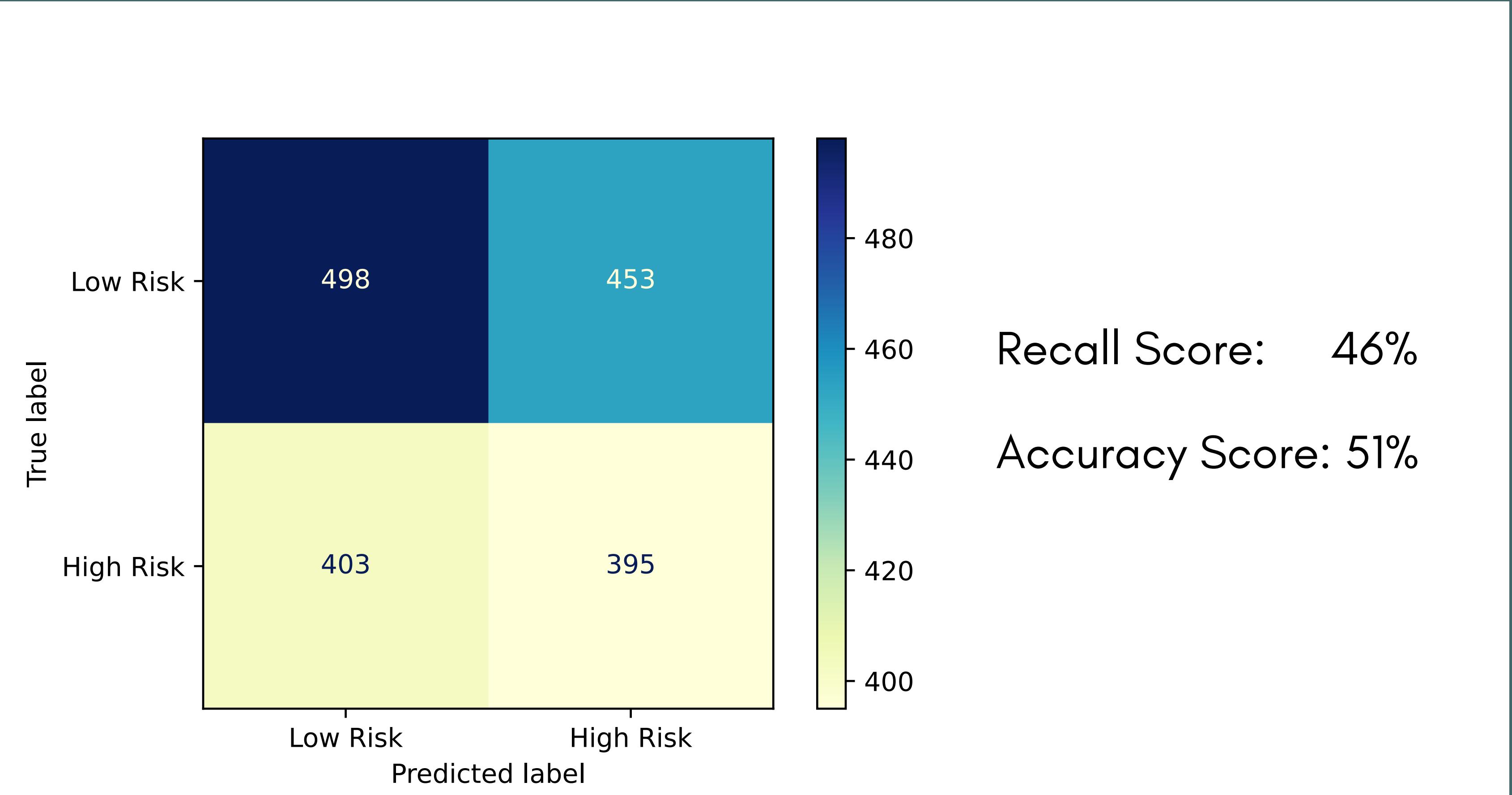
LOGISTIC REGRESSION



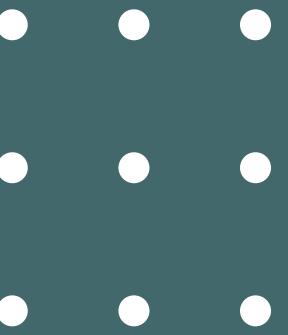
GRADIENT BOOSTING CLASSIFIER



GRADIENT BOOSTING CLASSIFIER TESTING DATA



NEXT STEPS



Honest Data



Quantifiable Questions



Cohort Survey



THANK YOU!

Bobby Daly

