

From College to the Pros

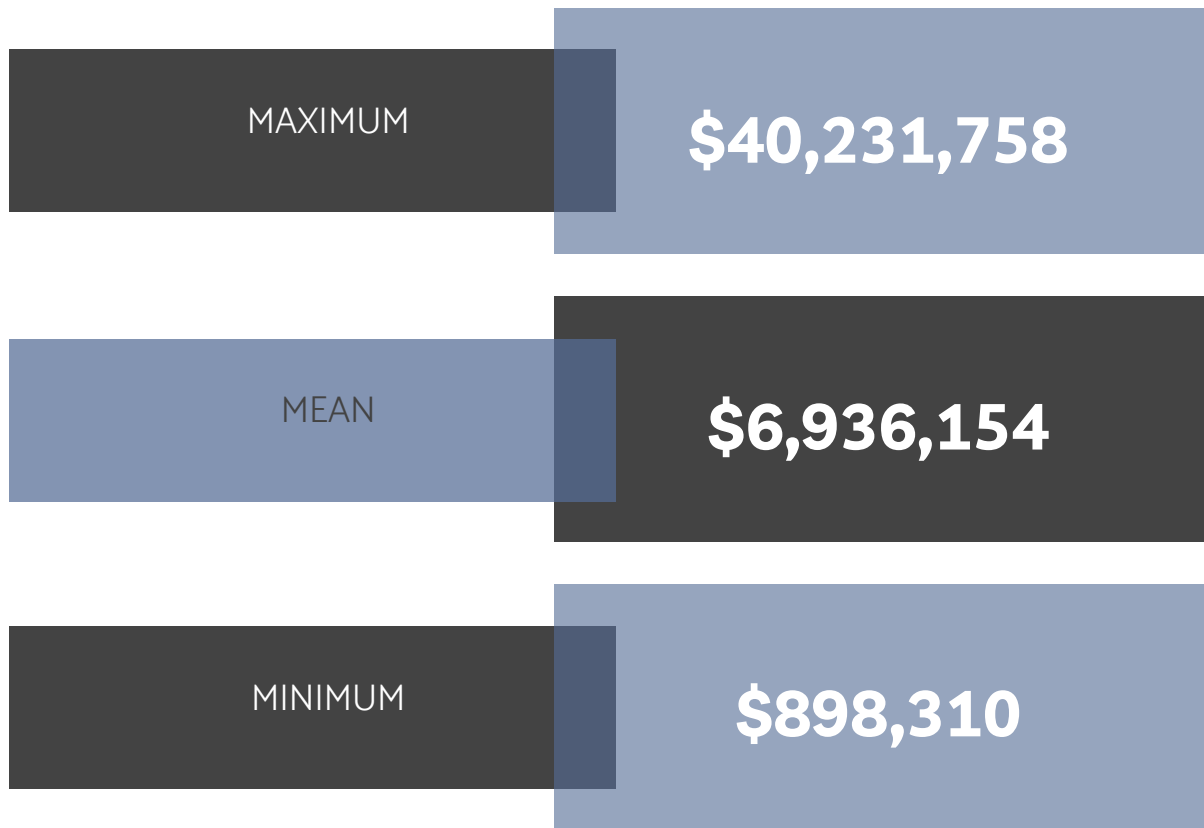
Predicting NBA Draft Round
Andy Tan
May 6, 2020



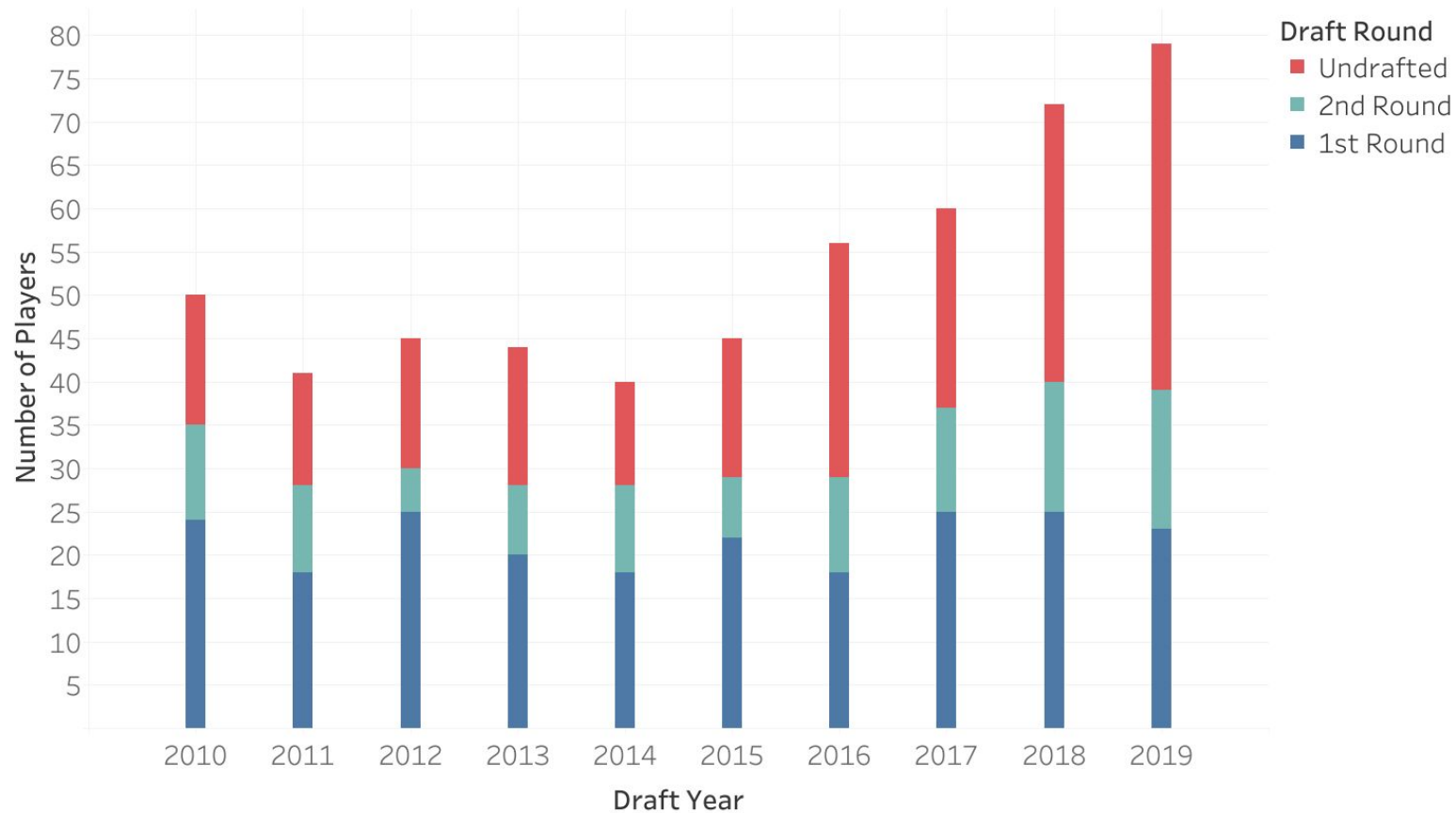
INTRO



NBA Salaries: 2019 - 2020



Underclassmen Declaring for the NBA





RISKS OF THE DRAFT

1ST ROUND

4 year contract
(2 years guaranteed)

2ND ROUND

No contract
guarantee

UNDRAFTED

Forgo remaining
college eligibility

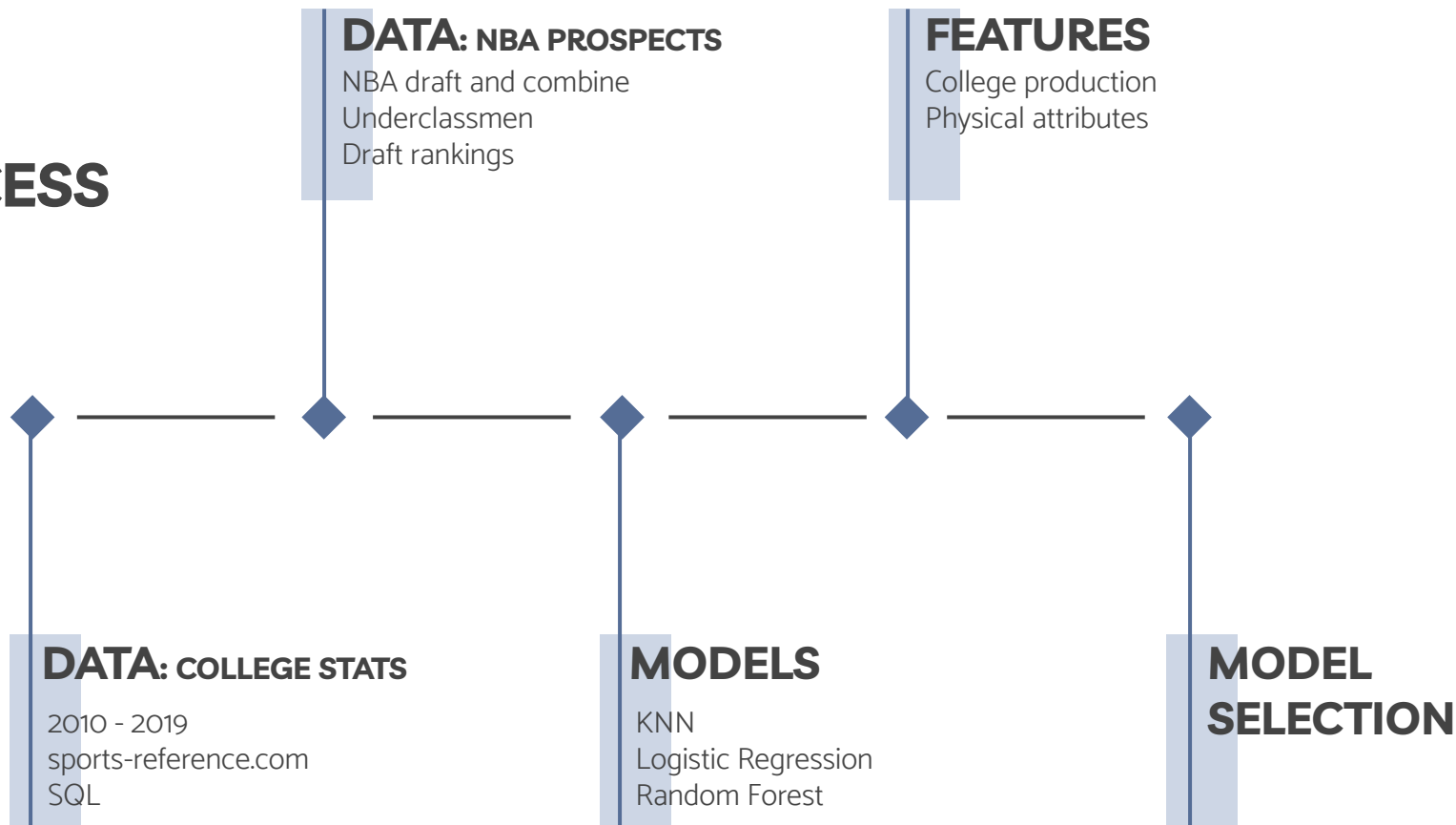


GOAL

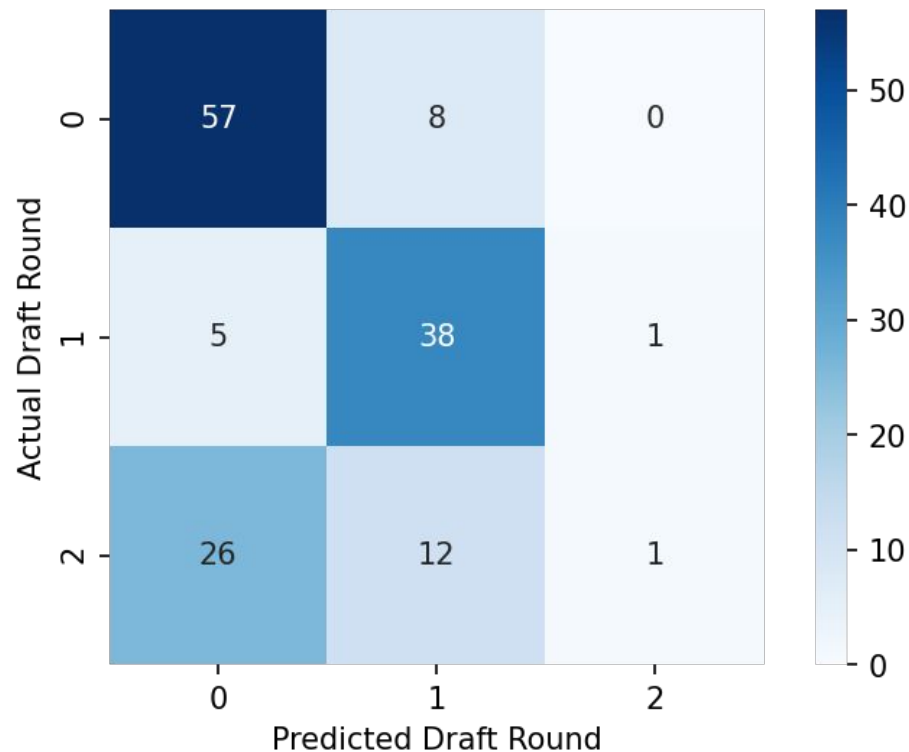
Design a classification
model to predict NBA
draft round



PROCESS



Logistic Regression Confusion Matrix (Test Data)



FINAL MODEL

ACCURACY **0.649**

RECALL (Rd 1) **0.877**

KEY FEATURES:

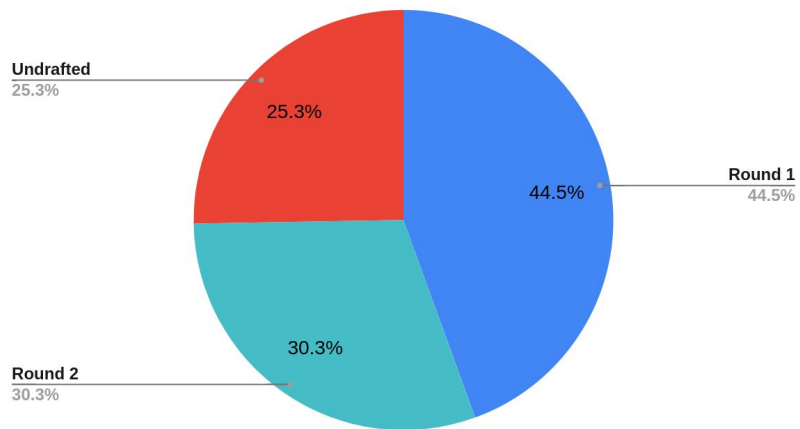
- Boxscore plus/minus
- Year in school

FUTURE WORK

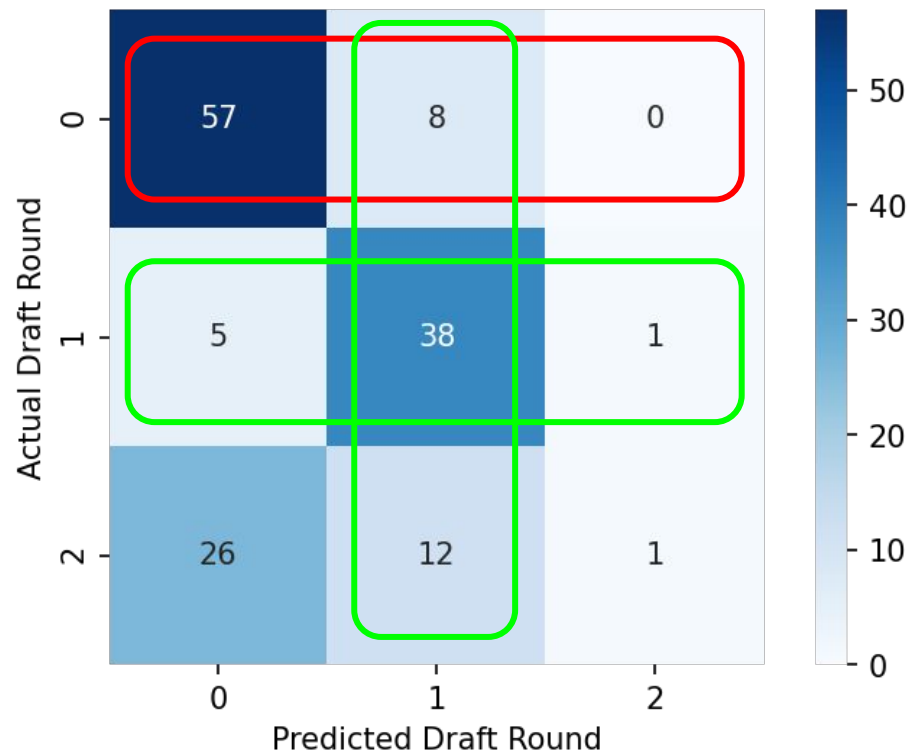
1. **Compare** model against NBA draft forecasting sites
2. Further explore effect of **class year** on draft outcome
3. Assess impact of players returning to college on draft status
4. Expand on evaluation of **error metrics** (see appendix)

APPENDIX

Draft Round Outcomes



Logistic Regression Confusion Matrix (Test Data)



APPENDIX

Logistic Regression (test)

Accuracy: 0.649	Round 1	Round 2	Undrafted
F1	0.745	0.049	0.745
Precision	0.655	0.500	0.648
Recall	0.864	0.026	0.877

Random Forest (validation)

Accuracy: 0.649	Round 1	Round 2	Undrafted
F1	0.697	0.421	0.748
Precision	0.660	0.444	0.754
Recall	0.738	0.400	0.742

THANKS

Does anyone have any questions?

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