



NBA Draft Prediction

Leveraging college basketball statistics to predict the NBA draft pick

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Introduction



Problem to Address

How to predict NBA draft selections using college basketball player statistics

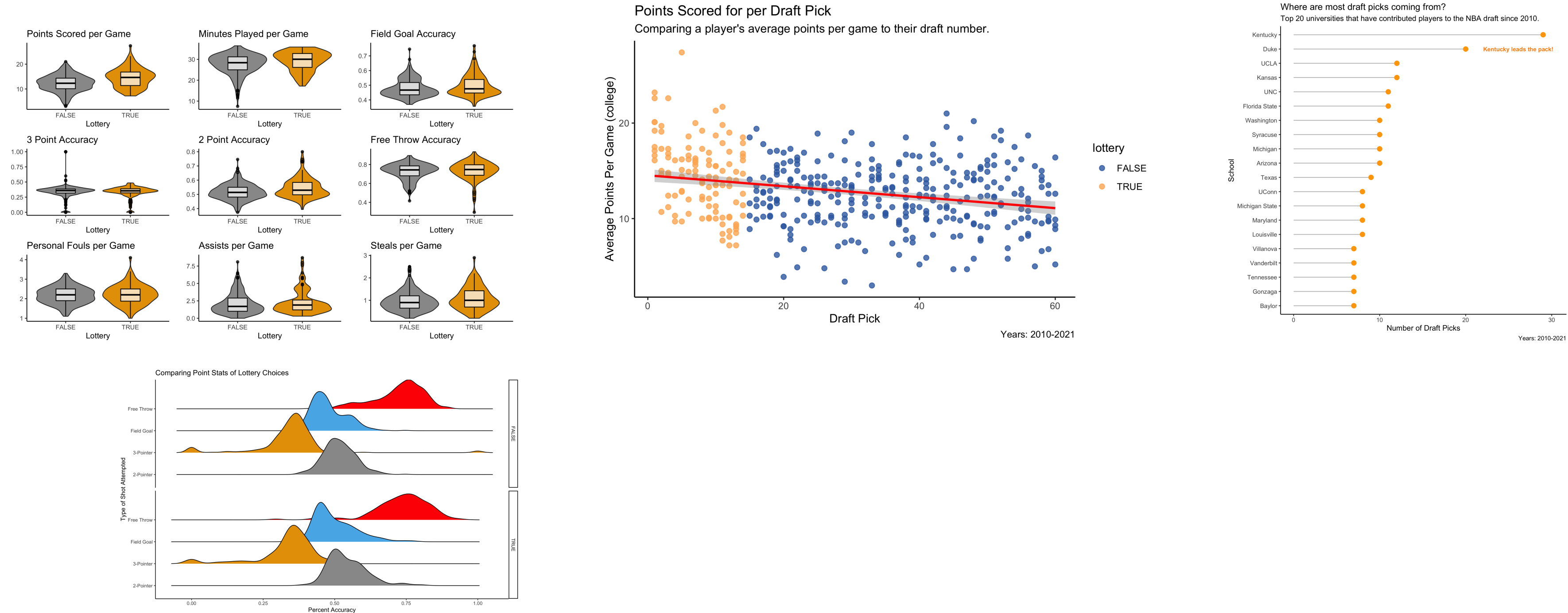
Importance

How to predict NBA draft selections using college basketball player statistics

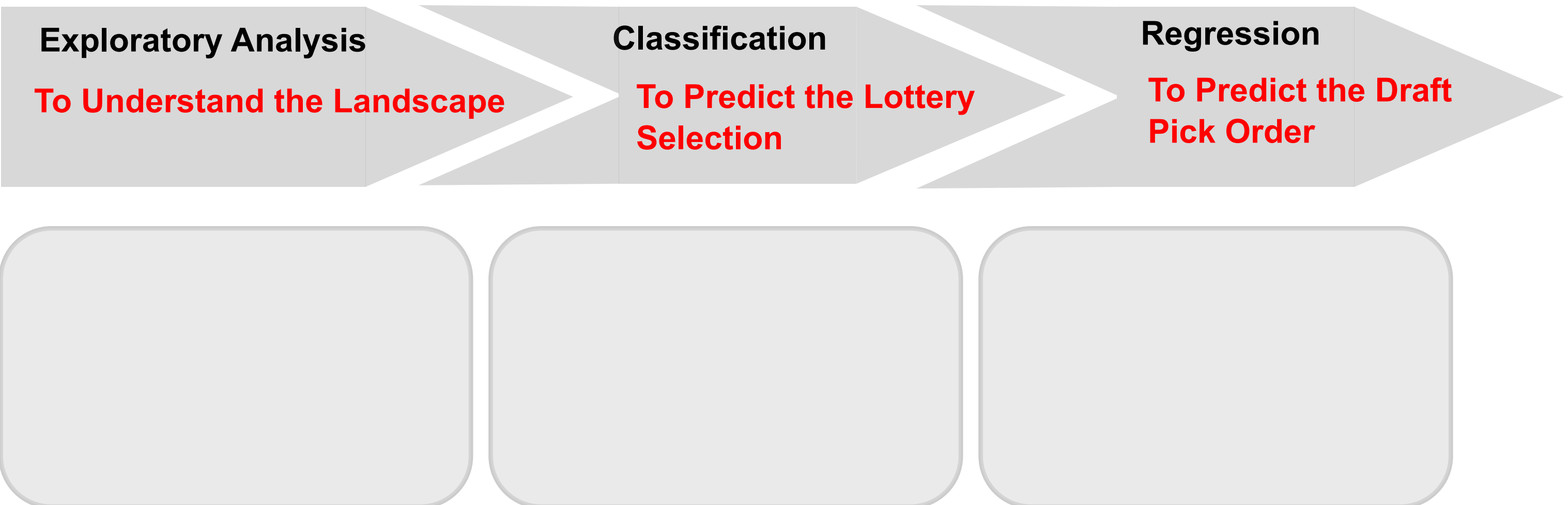
Background

How to predict NBA draft selections

Dataset



Methods



Results



Classification Model Comparison:

Classification Interpretation:

Model Approach:

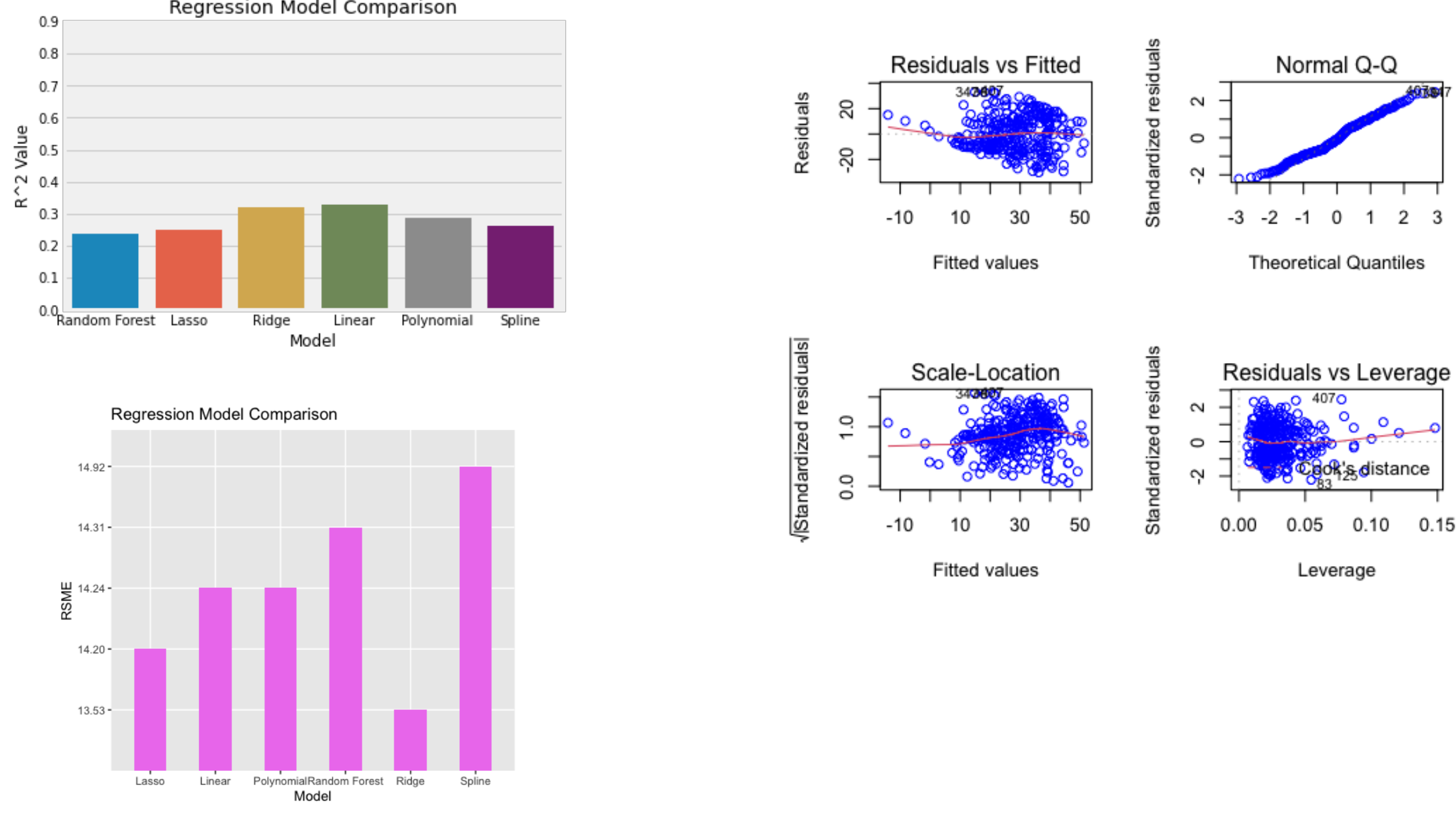
- Rank and pick variables removed to avoid multicollinearity
- Missing values removed
- Lottery converted to factor
- 5-fold cross validation because of data size
- Random grid search
- Hyperparameter tuning

Regression Model Comparison:

Regression Interpretation:

Model Approach:

- Best subset selection for OLS models only
- Six regression models run
- Most optimal model determined
- Residuals analyzed and model was re-assessed (e.g., outliers removed)



Conclusions



Future Considerations