

NBA Game Outcome Predictor

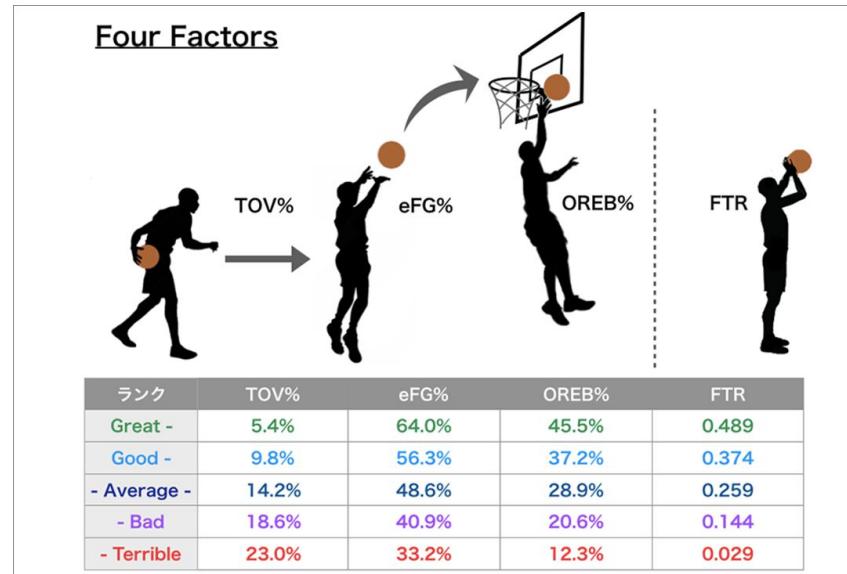
By Connor Sullivan

The Goal

- Predict whether the home team will win a given NBA match
- Outperform simple baseline
 - Home court advantage (between 53%-60%)
- ~32% upset rate

Features Used

- Initially tried using only box scores
- Four Factors
 - Box score derived metrics that correlate closely with winning
 - Capture offensive and defensive performance using little overlap

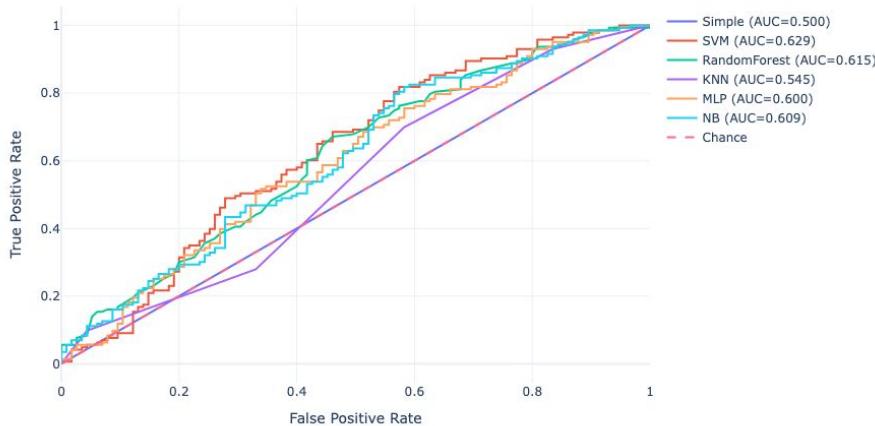


Feature Used

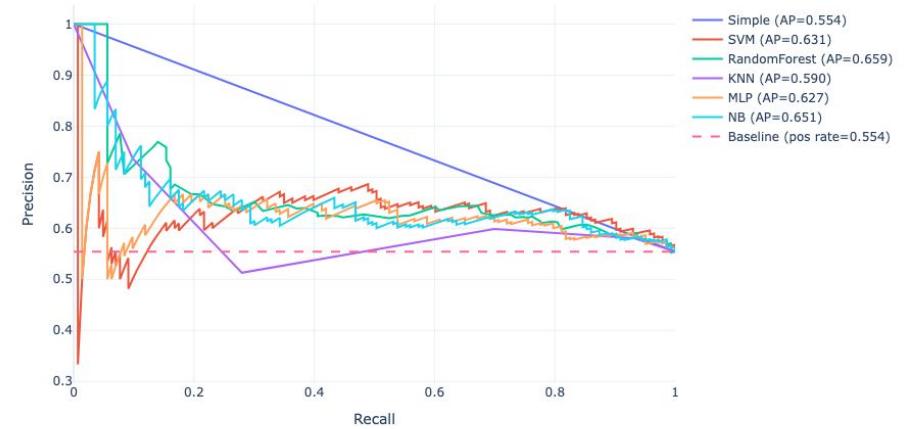
- Uses a rolling average over the previous 10 games
- Only uses games matching current “position”
 - Home team only uses home games
 - Away team only uses away games
- Tested on ‘25-’26 season
- Trained on all previous seasons

Results

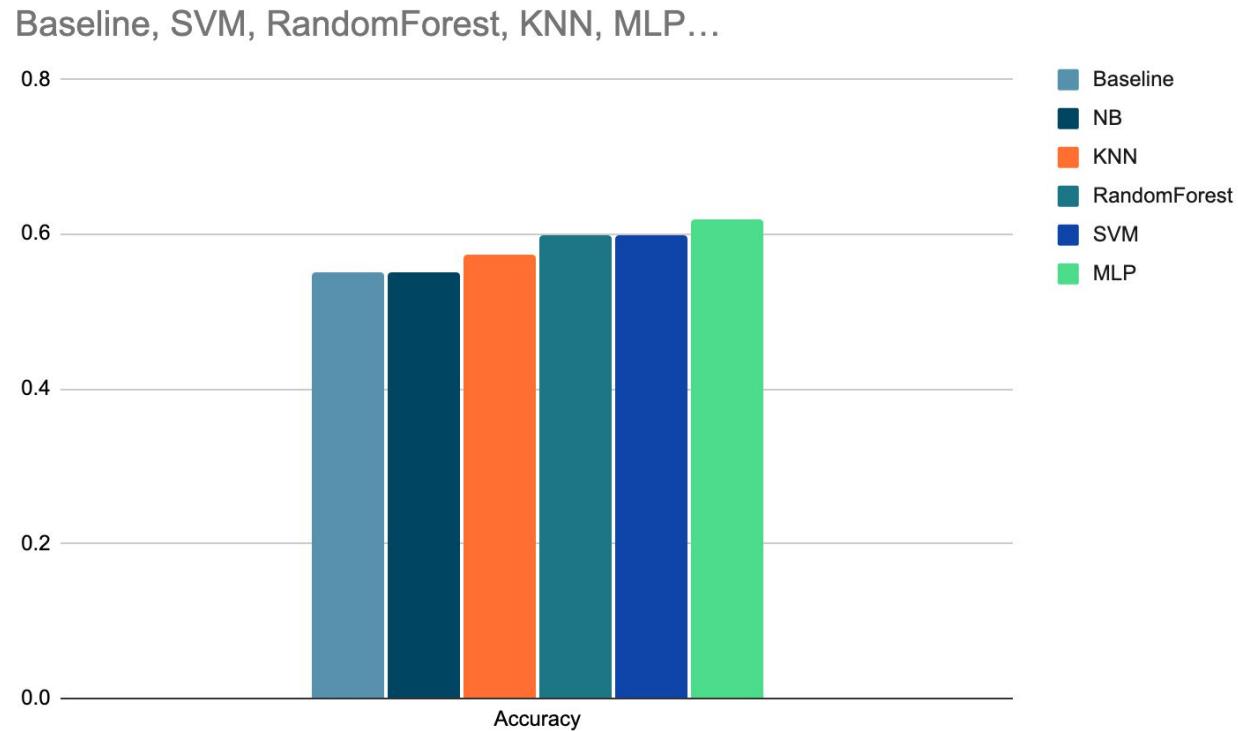
ROC Curve Comparison



Precision-Recall Curve Comparison



Results



Thank you!