NCAAM March Madness Upsets

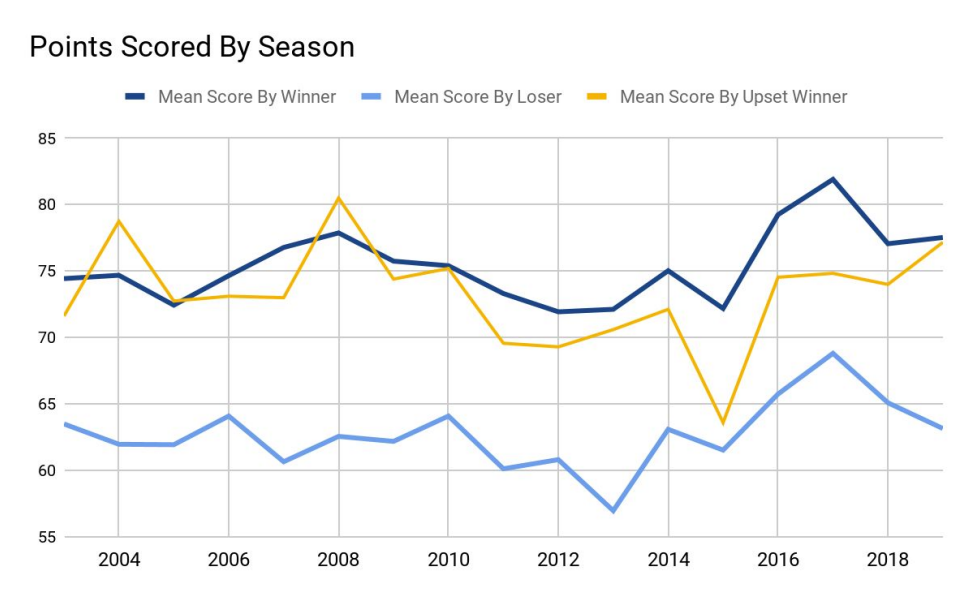
Anubhav Jain

Past First Round Upsets

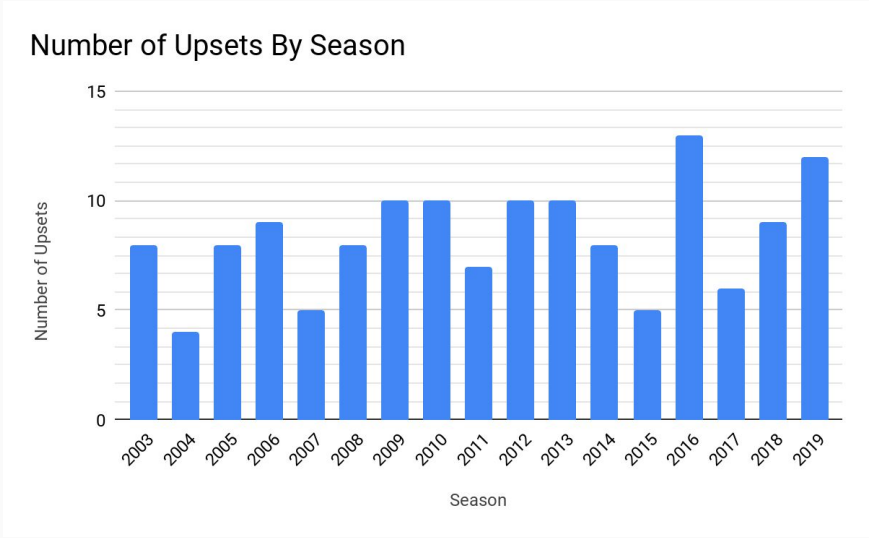
2012 Lehigh (15) defeats Duke (2)

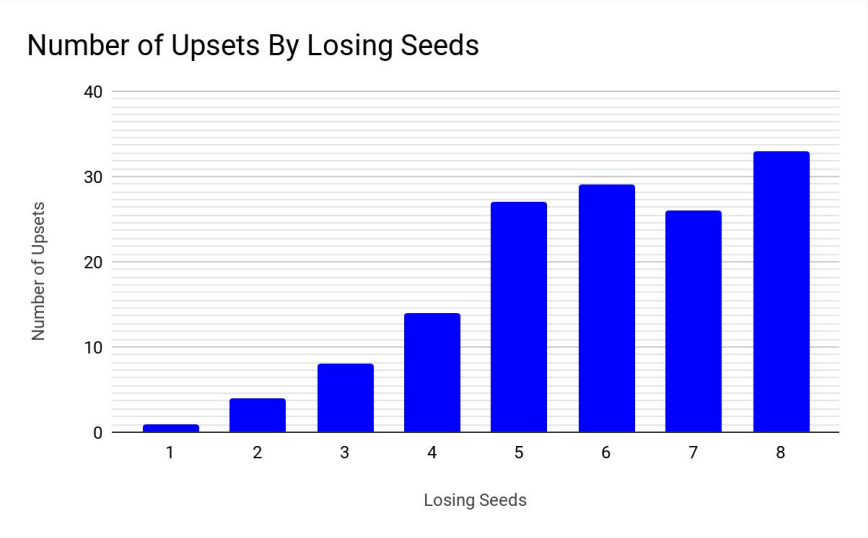
2018 UMBC (16) defeats Virginia (1)

Historical Data



Historical Data



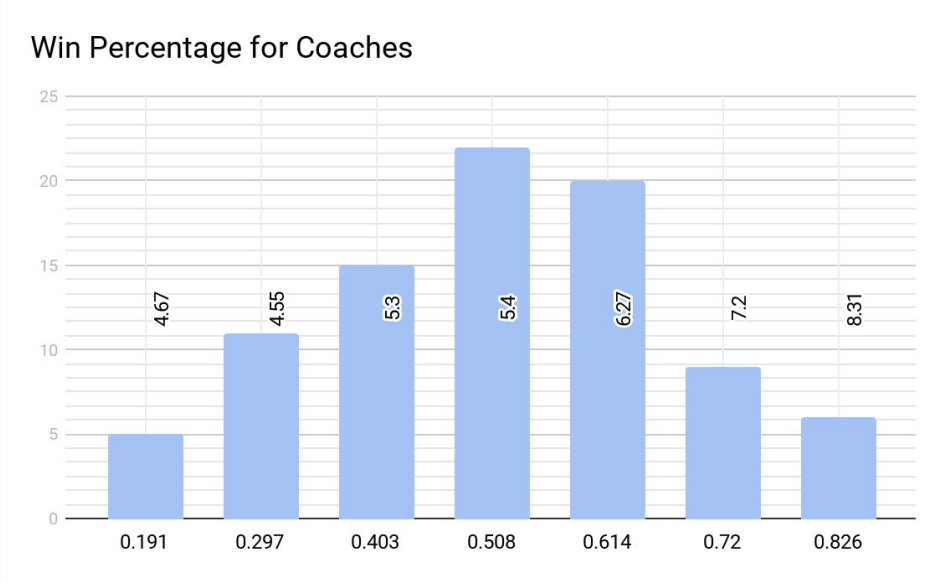


Coach Tenure

Tom Izzo: 628–241 (.723)
52–21 (.712) NCAA Tournament

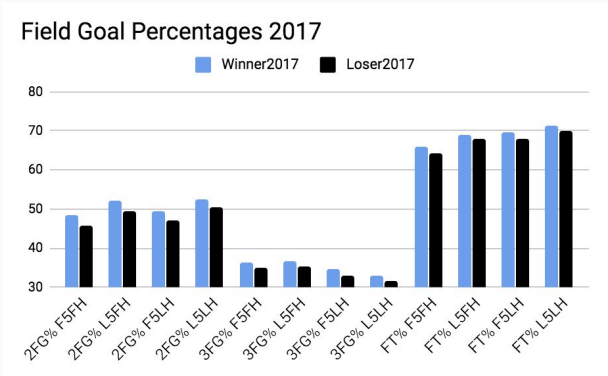
Mike Krzyzewski : 1,157–350 (.768)
97-30 (.764) NCAA Tournament

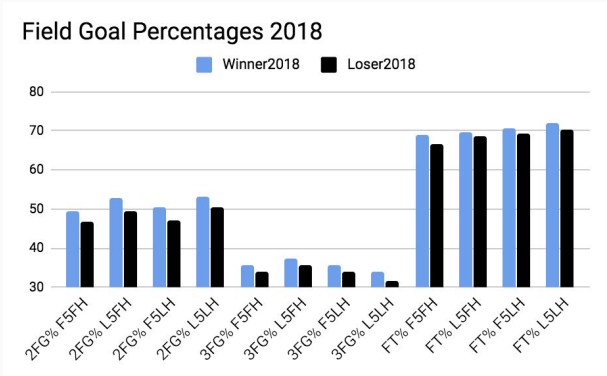
Coach Tenure vs. Tournament Success

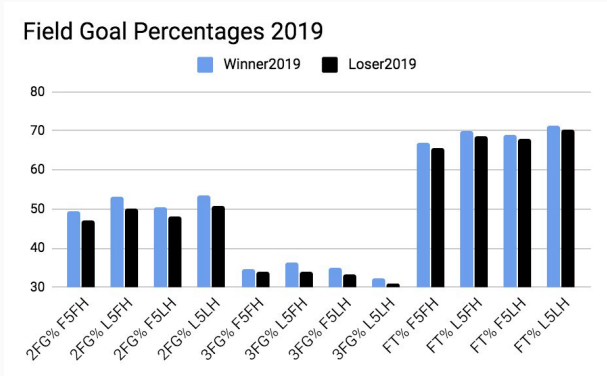


A Game Of Runs

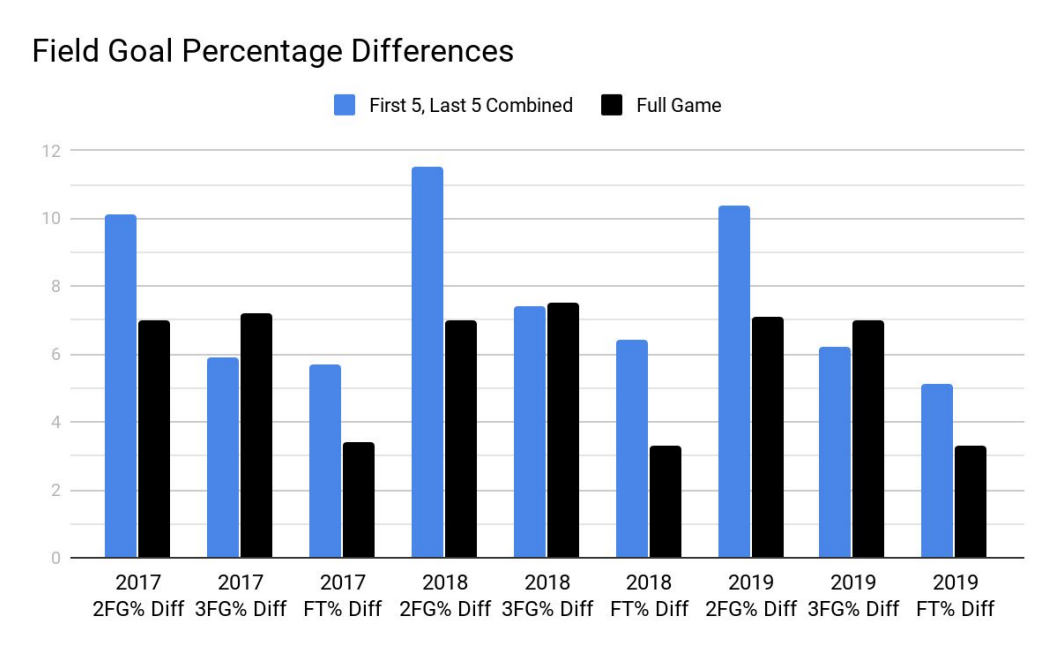
Shooting Percentages First 5, Last 5







Shooting Percentage First 5, Last 5

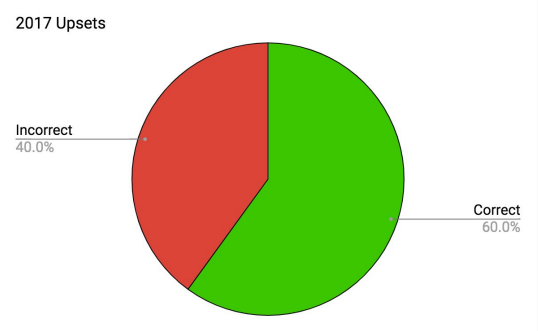


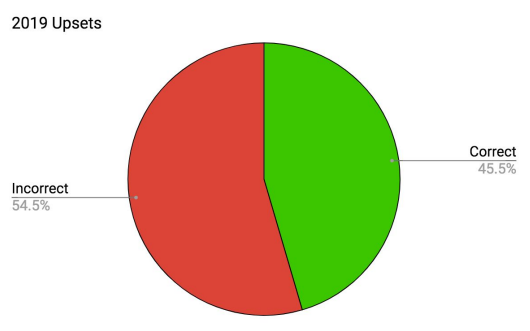
Predictors and Predictions

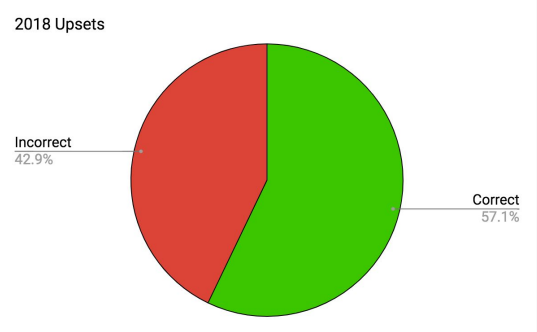
Results

Correct	Incorrect
9 v 8 (6)	9 v 8 (2)
10 v 7 (2)	10 v 7 (3)
11 v 6 (1)	11 v 6 (3)
12 v 5 (2)	12 v 5 (1)
13 v 4 (1)	13 v 4 (2)

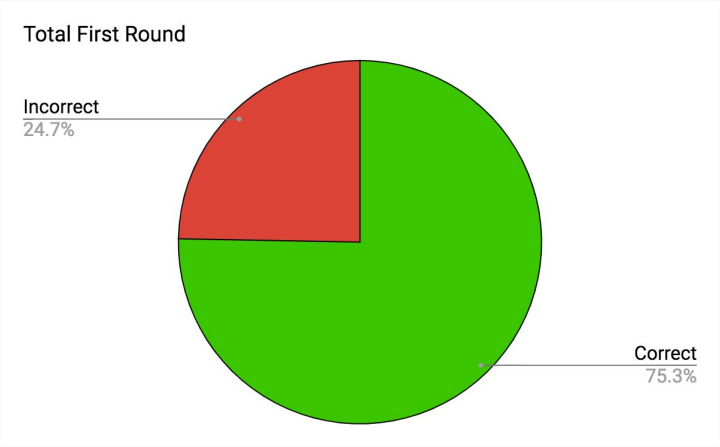
Total: 12/23 games predicted correctly

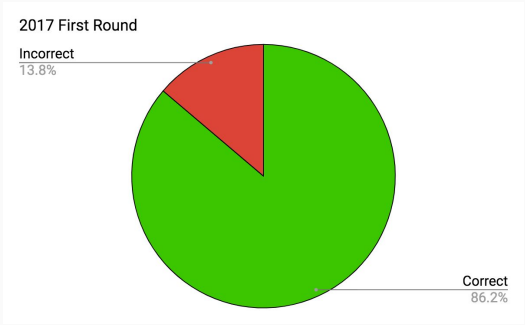


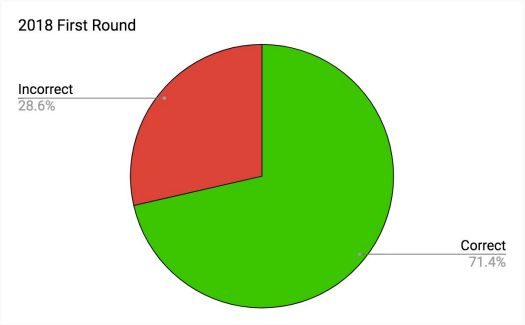


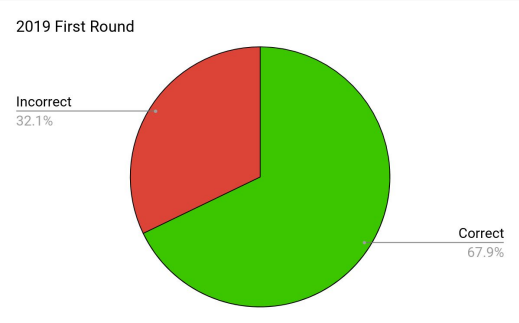


Results









Total: 64/85 games predicted correctly
75.3% Accuracy

True Positive Rate: 73.1%
True Negative Rate: 77.3%

Future Work

- Include individual player significance
- Include secondary tournament results
- Include past tournament results
- Find better parameters for classifiers

Thank You

Anubhav Jain | ajain@wesleyan.edu | https://github.com/ajain1017/dsc-mod-5-project-online-ds-pt-081219