

NCAAM March Madness Upsets

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Past First Round Upsets

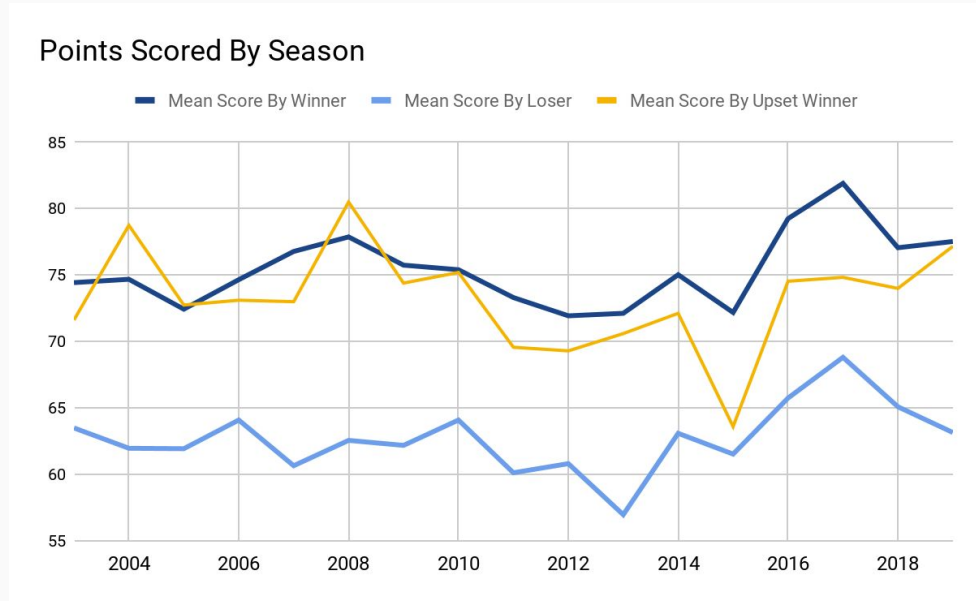


2012 Lehigh (15) defeats Duke (2)

2018 UMBC (16) defeats Virginia (1)

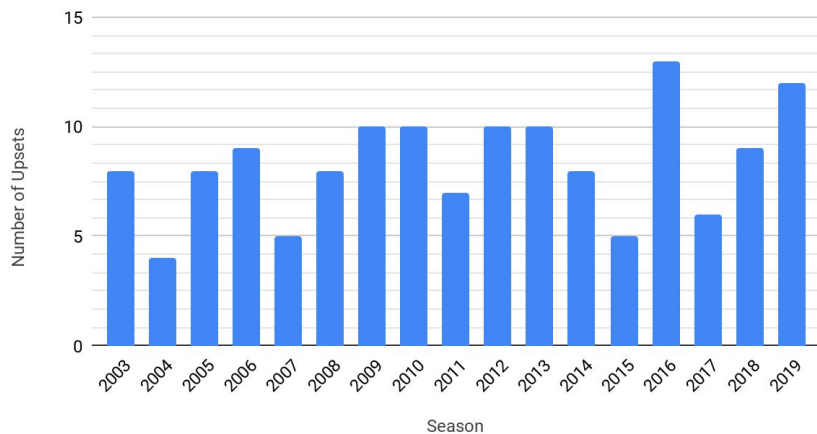


Historical Data

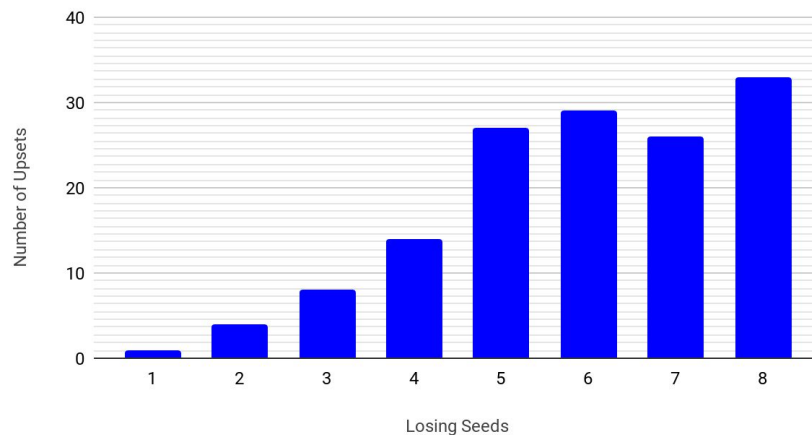


Historical Data

Number of Upsets By Season



Number of Upsets By Losing Seeds



Coach Tenure



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

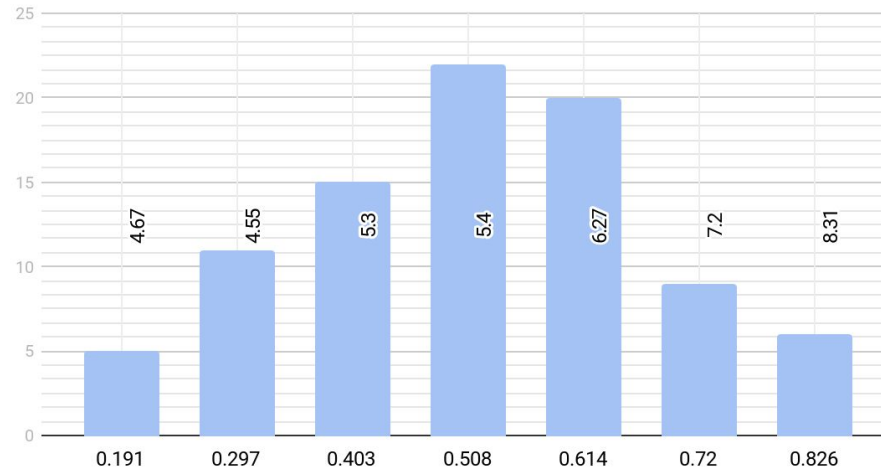


Mike Krzyzewski : 1,157–350 (.768)
97-30 (.764) NCAA Tournament



Coach Tenure vs. Tournament Success

Win Percentage for Coaches

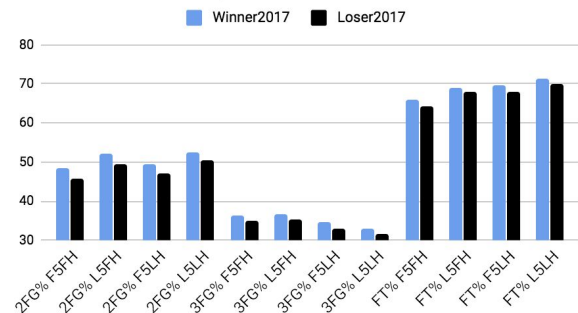


A Game Of Runs

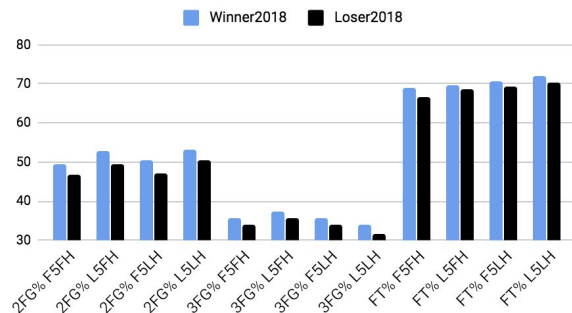


Shooting Percentages First 5, Last 5

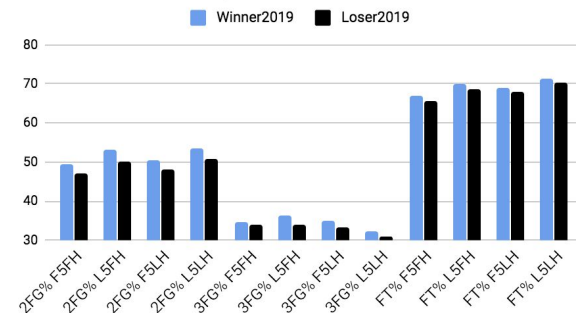
Field Goal Percentages 2017



Field Goal Percentages 2018

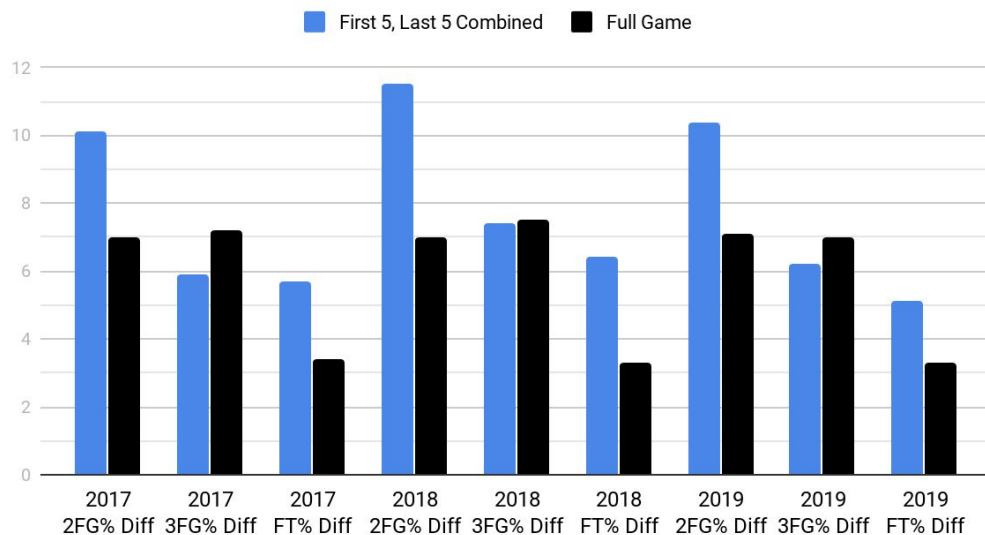


Field Goal Percentages 2019



Shooting Percentage First 5, Last 5

Field Goal Percentage Differences



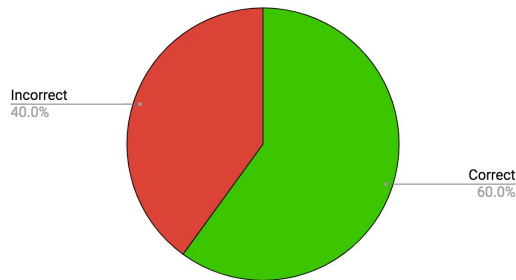
Predictors and Predictions

Results

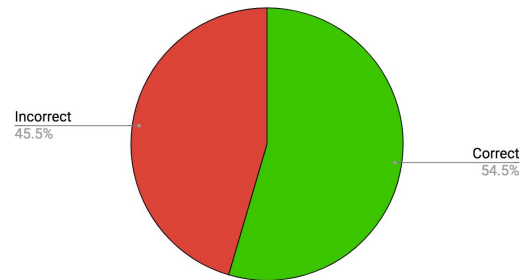
Correct	Incorrect
9 v 8 (6)	9 v 8 (2)
10 v 7 (2)	10 v 7 (3)
11 v 6 (1)	11 v 6 (3)
12 v 5 (3)	12 v 5 (0)
13 v 4 (1)	13 v 4 (2)

Total: 12/23 games predicted correctly

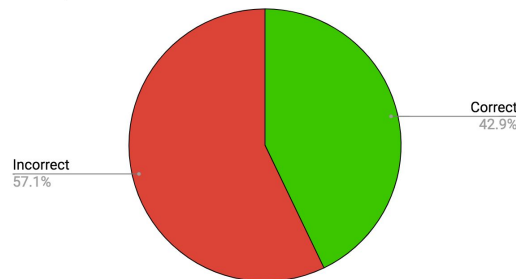
2017 Upsets



2019 Upsets

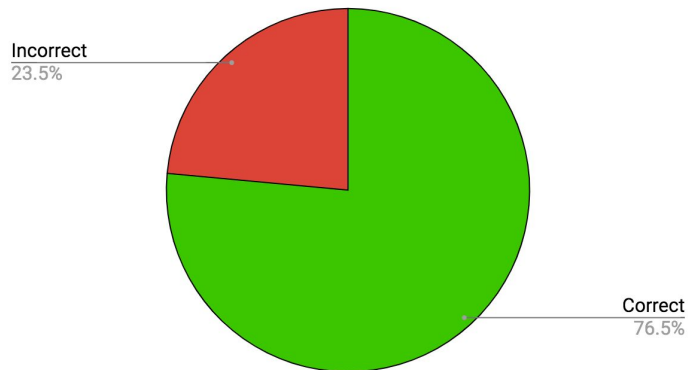


2018 Upsets



Results

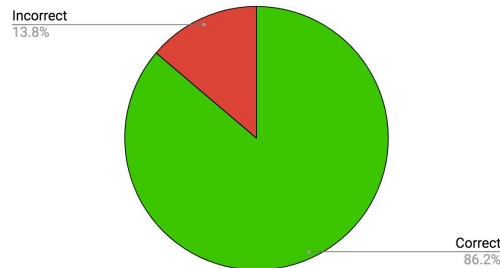
Total First Round



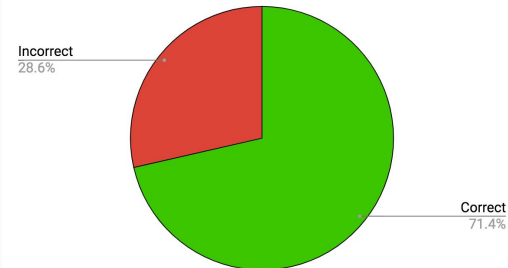
Total: 65/85 games predicted correctly
76.5% Accuracy

True Positive Rate: 73.1%
True Negative Rate: 79.5%

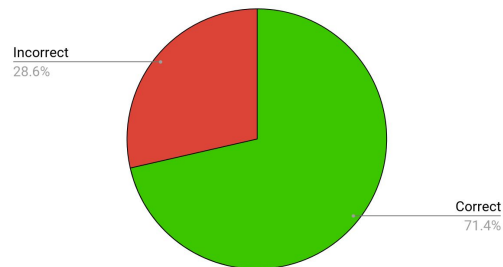
2017 First Round



2018 First Round



2019 First Round



Future Work

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

Thank You