

# Prediction of NBA game winner

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# Prediction Model

- Elo score

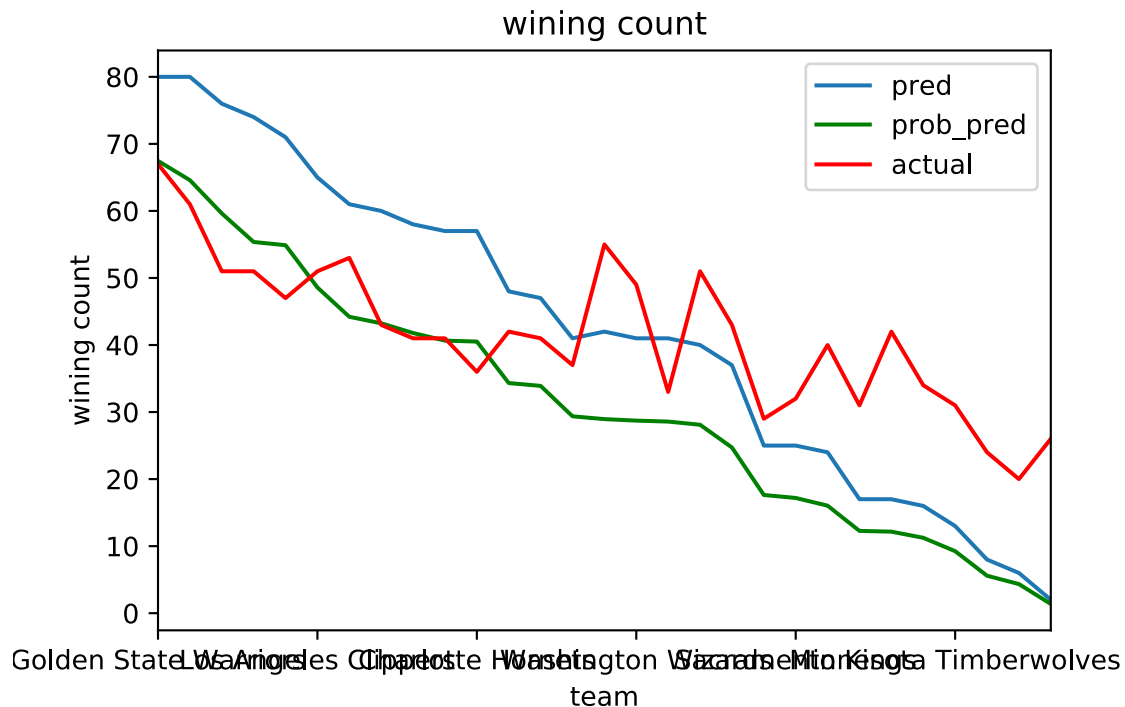
$$E_A = \frac{1}{1 + 10^{(R_B - R_A)/400}} \quad E_B = \frac{1}{1 + 10^{(R_A - R_B)/400}}$$
$$R'_A = R_A + K(S_A - E_A)$$

- Feature Vector

(team A/B: Elo score, Team per game stats, Opponent per game stats, Miscellaneous stats )

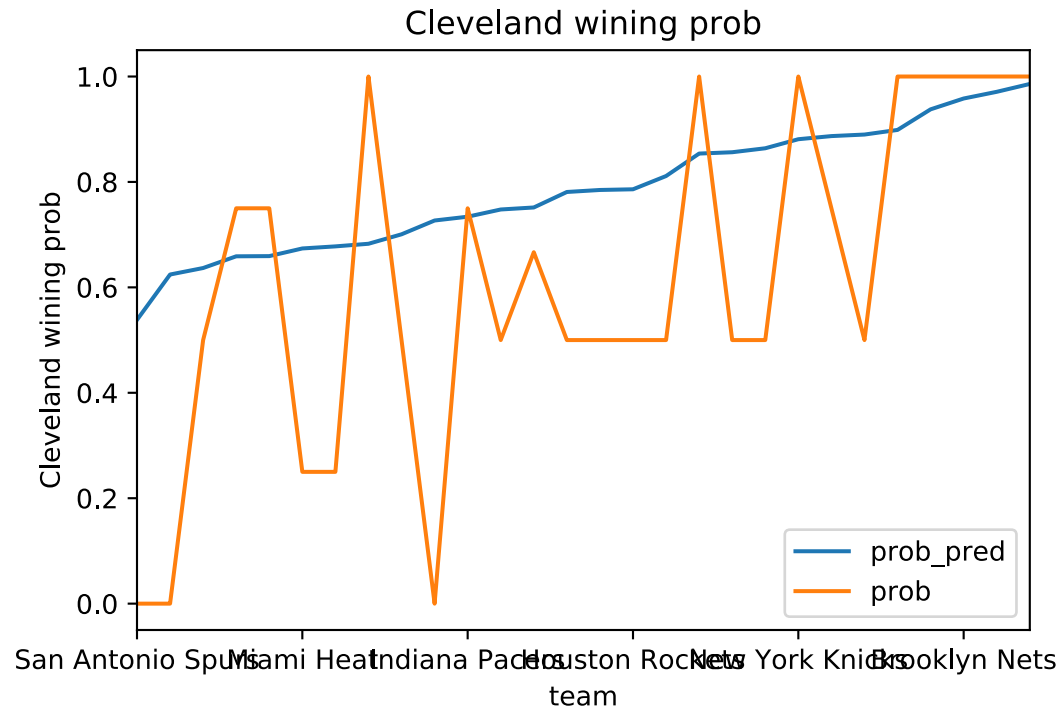
- Logistical regression

# Stats of Play-off teams



- Total winning games for each team
- Projected play-off matchups

# Winning probability prediction



- Winning probability of matchups

# Future work

## ◀ Games on Mar. 20, 2017 ▶

Away team	ATL	PHI	UTA	WSH	DEN	GS✓	NY
Pre-game win probabilities	35%	38%	56%	41%	23%	60%	14%
	65%	62%	44%	59%	77%	40%	86%
Home team	CHA✓	ORL✓	IND✓	BOS✓	HOU✓	OKC	LAC✓