

Disclaimer

This presentation is for educational purposes only. Findings and analysis are based on past results and are in no way a reliable indicator of future performance. Wagering real money based on the contents of this presentation is 100% discouraged. I hereby waiver any responsibility on my behalf if you choose to ignore this notice.

Table Of Contents



Business Problem



Methodology



Results



Data Scientist vs. Data Scientist



Recommendations



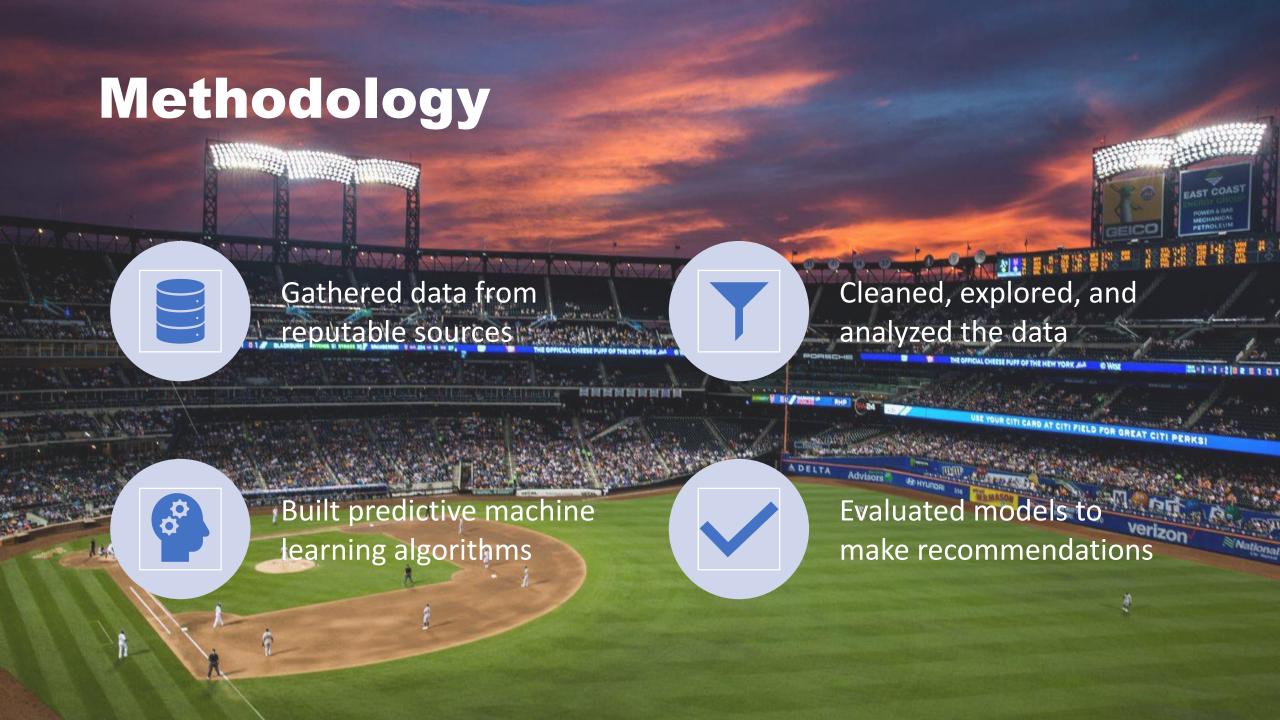
Future Work

- Sports betting has become increasingly popular since 2018 when the US Supreme Court ruled in favor of legalizing the industry in New Jersey
- Billions of dollars a year are now being generated by this industry

Business Problem

- 1) Predict season total wins
- 2) Evaluate what the best predictors are to winning a single regular-season game

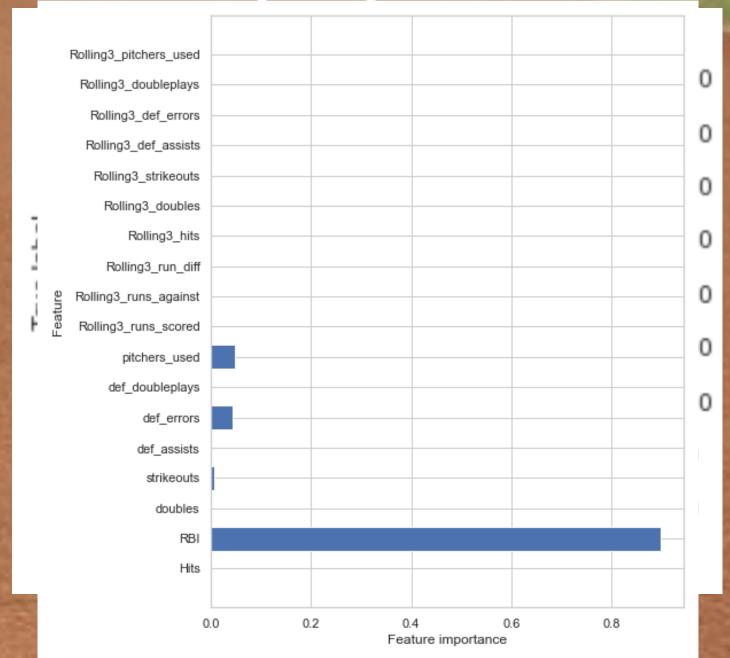
- The average bettor is losing \$\$\$
- Data science can help!



Results

- Recall score: 80%
- Accuracy: 76%
- AUC: 86.5%

Predicting Single Game Wins



Data Scientist vs. Data Scientist

Team	Wins	Vegas Line	Absolute Diff	% Diff
HOU	551	508	43	9%
MIL	494	464	30	7%
NYY	549	524	25	5%
CHC	544	524	20	4%
OAK	494	476.5	17.5	4%
ERA	1 6 7	014-	2040	4%
LAD	579	560.5	18.5	3%
ATL	473	459	14	3
		S 45 5	0/ 1	35
TBD	491	478	13	3%
STL	538	524	14	3%
WSN	546	546	0	0%
PIT	490	492.5	-2.5	-1%
ARI	472	475	-3	-1%
KCR	462	469	-7	-2%
COL	458	465	-7	-2%
NYM	489	497	-8	-2%

Recommendations

- 1. Bet one of the following teams when wagering on a team's season total wins
 - Detroit Tigers 10% Under
 - Houston Astros 9% Over
 - Cincinnati Reds 8% Under
 - Milwaukee Brewers 7% Over
 - San Diego Padres 6% Under
- 2. Bet on teams that have high run differential and produce a lot of RBIs

Future Work

- Start analysis from the most micro level (1 pitch, 1 swing) and build up to the most macro (team data)
- Incorporate ELO ratings for players and teams
- Track daily odds from the bookmakers to then build a database that I can then compare to actual results in pursuit of back-engineering the models that bookmakers use

Thank You!

Name: Michael Tiernan

GitHub: @MJ-AllDay-67

LinkedIn: https://www.linkedin.com/in/michaeljohntiernan/