

Classifying MLB Hall Of Fame Players

Michael Tiernan

"how the voters come to their decisions is flawed and needs to change."

Max Greenfield
 baseball columnist at Elitesportsny

HOF Voting

- An elector (member of BBWAA with min 10yrs experience) is allowed maximum 10 votes
- Candidates must receive 75% of votes
- Candidates eligible after 5 years of retiring and are eligible for 10 years



Business Problem

Uncover the actual stats that matter when it comes to HOF voting

Use these findings to help my clients navigate current contract negotiations

Methodology

- Gathered data from multiple resources
- Cleaned, explored, and analyzed the data
- Built predictive machine learning models
- Evaluated models and used best one to make recommendations



Findings (cont.)

- Model predicts 94% accuracy
- 80% recall

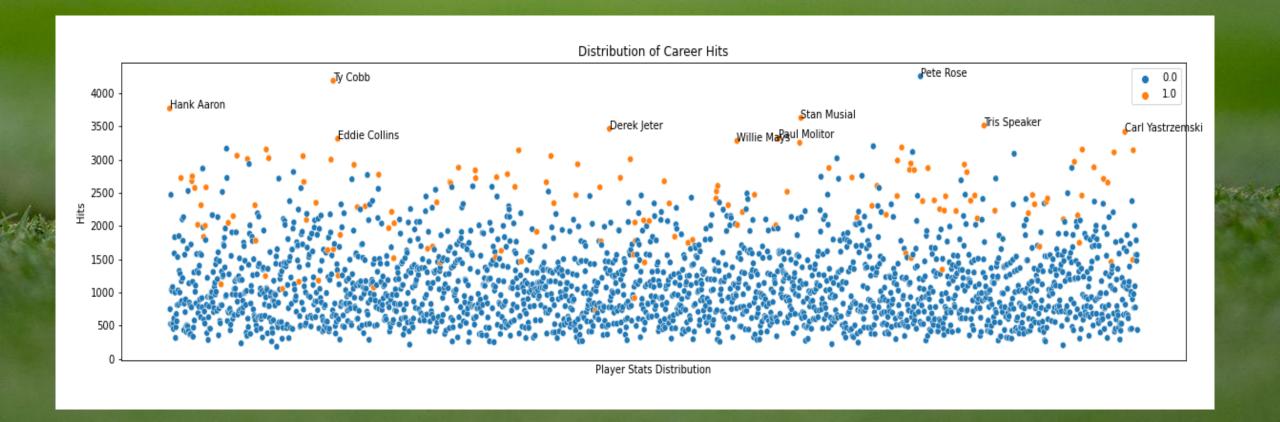
	34] 35]]				
•		precision	recall	f1-score	support
	0.0	0.99	0.95	0.97	649
	1.0	0.51	0.80	0.62	44
accuracy				0.94	693
macro	o avg	0.75	0.87	0.79	693
weighte	d avg	0.96	0.94	0.94	693

Accuracy score: 0.937950937950938 Recall score: 0.79545454545454 Precision score: 0.5072463768115942

F1 score: 0.6194690265486726

Recommendation 1

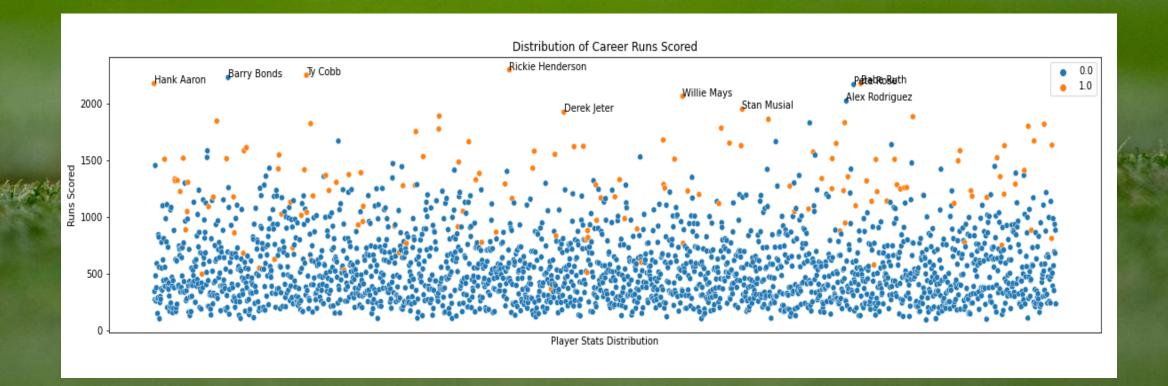
Sign players who produce a high volume of hits



Recommendation 2

Place your player clients on teams with strong lineups that produce more runs.

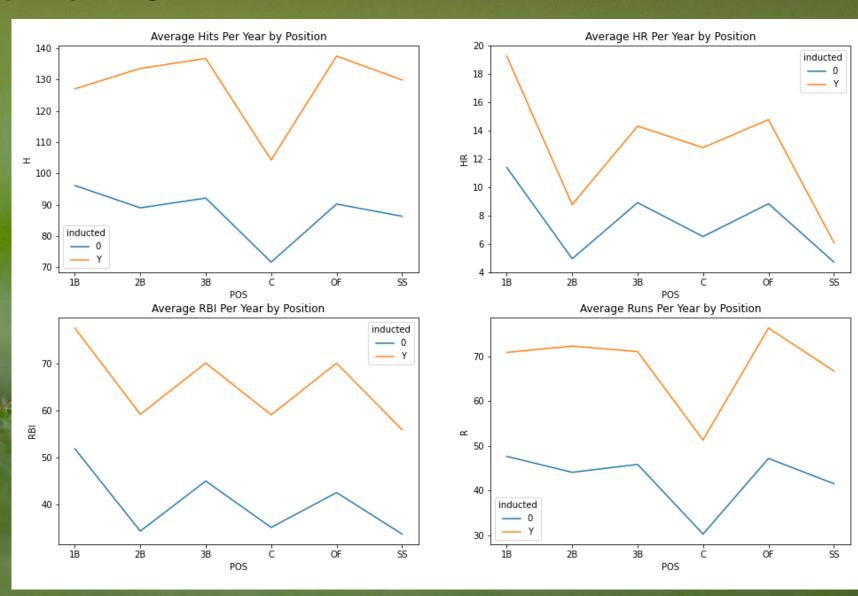
- This gives your player a higher % chance to score more runs



Recommendation 3

Prioritize

- Third Basemen
- Outfielders



Future Work

With more time, I would have loved to go deeper into the world of sabermetrics.

There are more advanced stats available in baseball that more accurately define a player's ability like OPS+, WOBA, and WAR.

I would have loved to work with these stats, but I was unable to find them and in order to calculate them on your own, you must account for the time periods in which each player was playing in to accurately implement. I simply did not have the time to do this.





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