



The MLB's HOF: Longevity is Immortality

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Introduction

- Goal: to analyze and predict which stats impact Hall of Fame induction.

Player Comparison

Pittsburgh Pirates’ Jake Daubert and the Brooklyn Robins’ Lloyd Waner had similar stats in their careers, but both weren’t immortalized in the HOF:

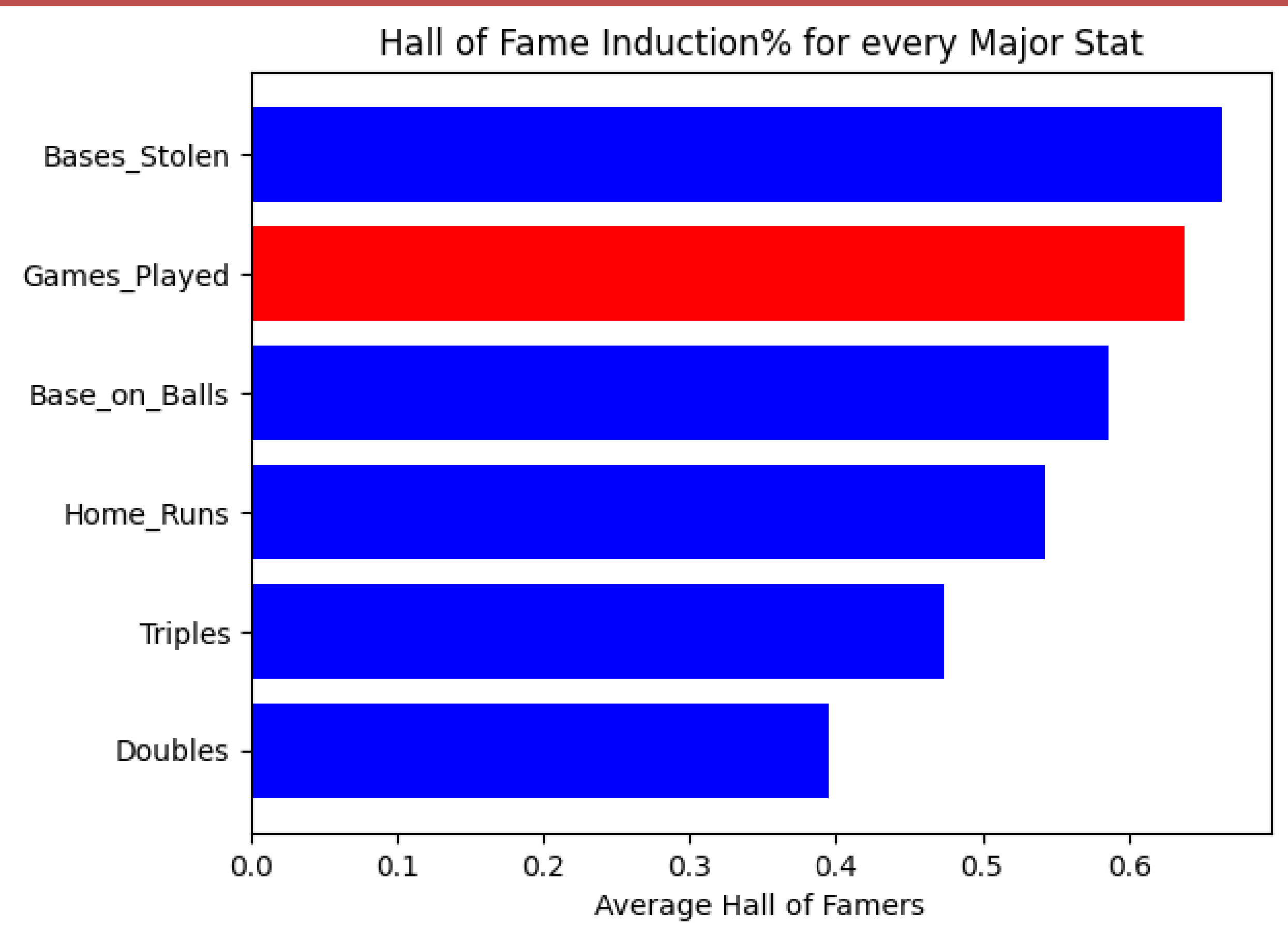
Player	Jake Daubert
Years Played	15
Time	’10-’24
Doubles	250
Bases Stolen	81
Home Runs	56
HOF	YES

Player	Lloyd Waner
Years Played	18
Time Span	’27-’45
Doubles	281
Bases Stolen	67
Home Runs	27
HOF	NO

- Although Jake Daubert won MVP and held multiple titles, Lloyd Waner had a longer and more consistent career, which led to his HOF induction.

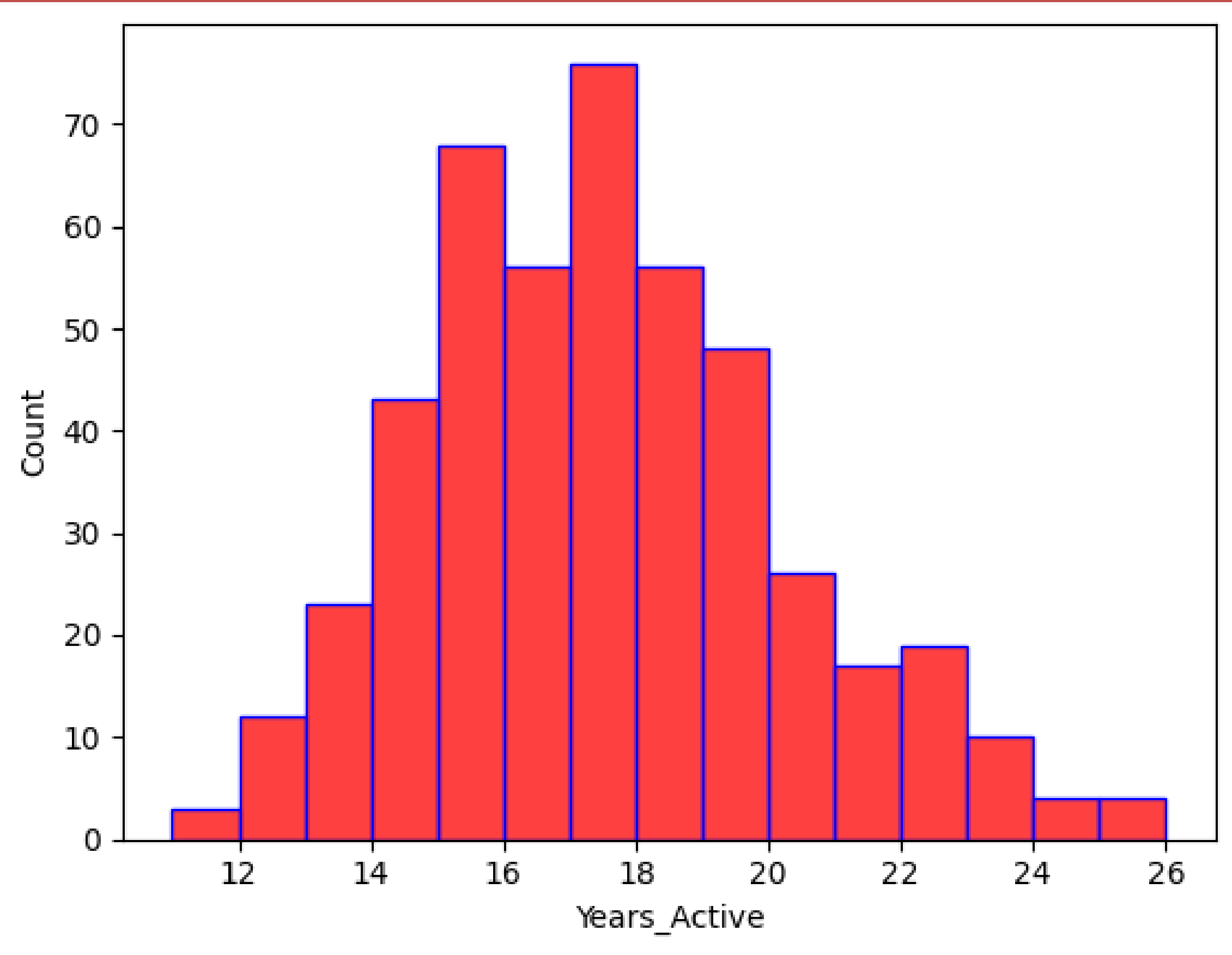
Results

Figure 1:



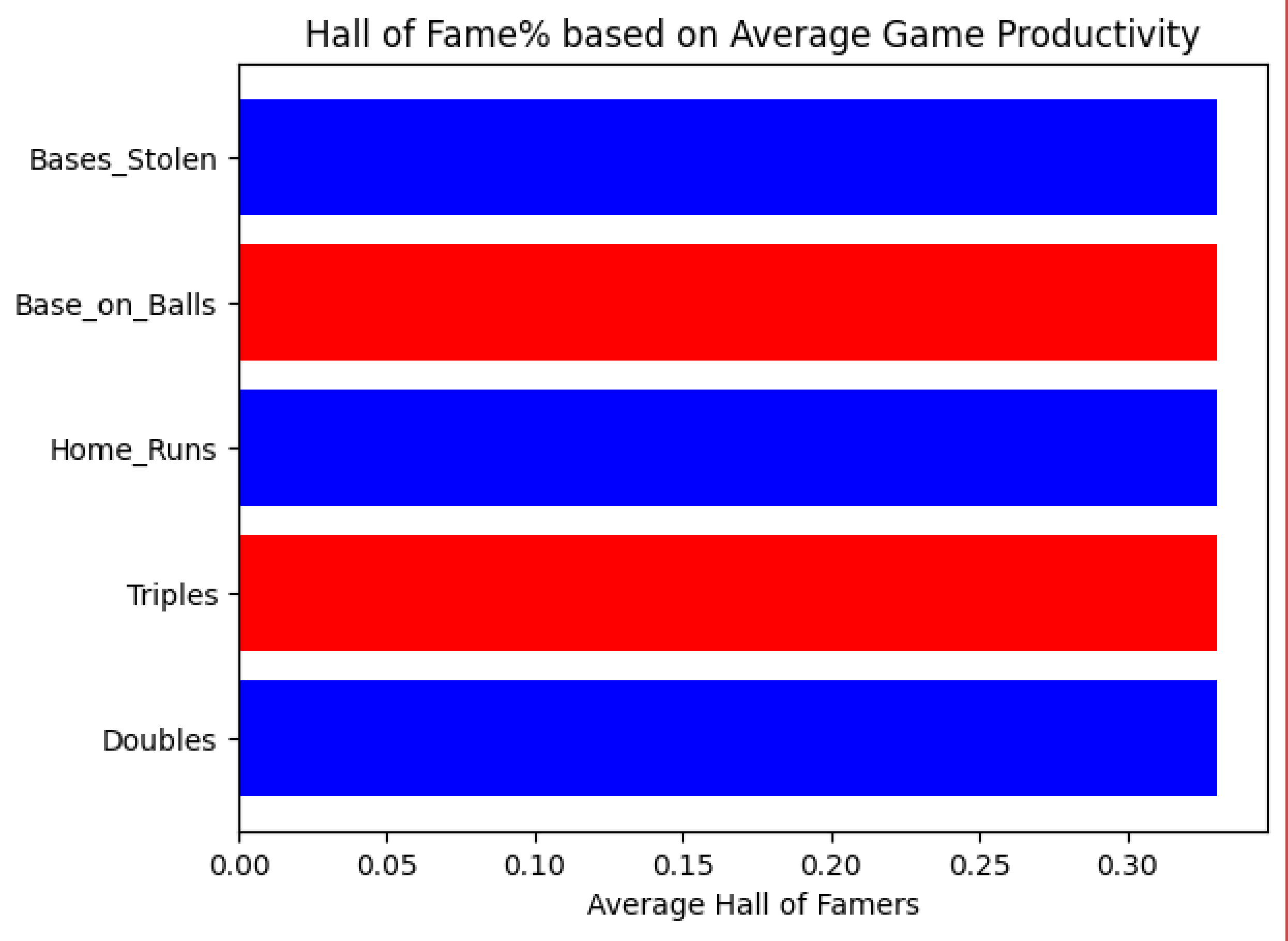
Both career longevity and overall performance seem to affect HOF chances

Figure 3



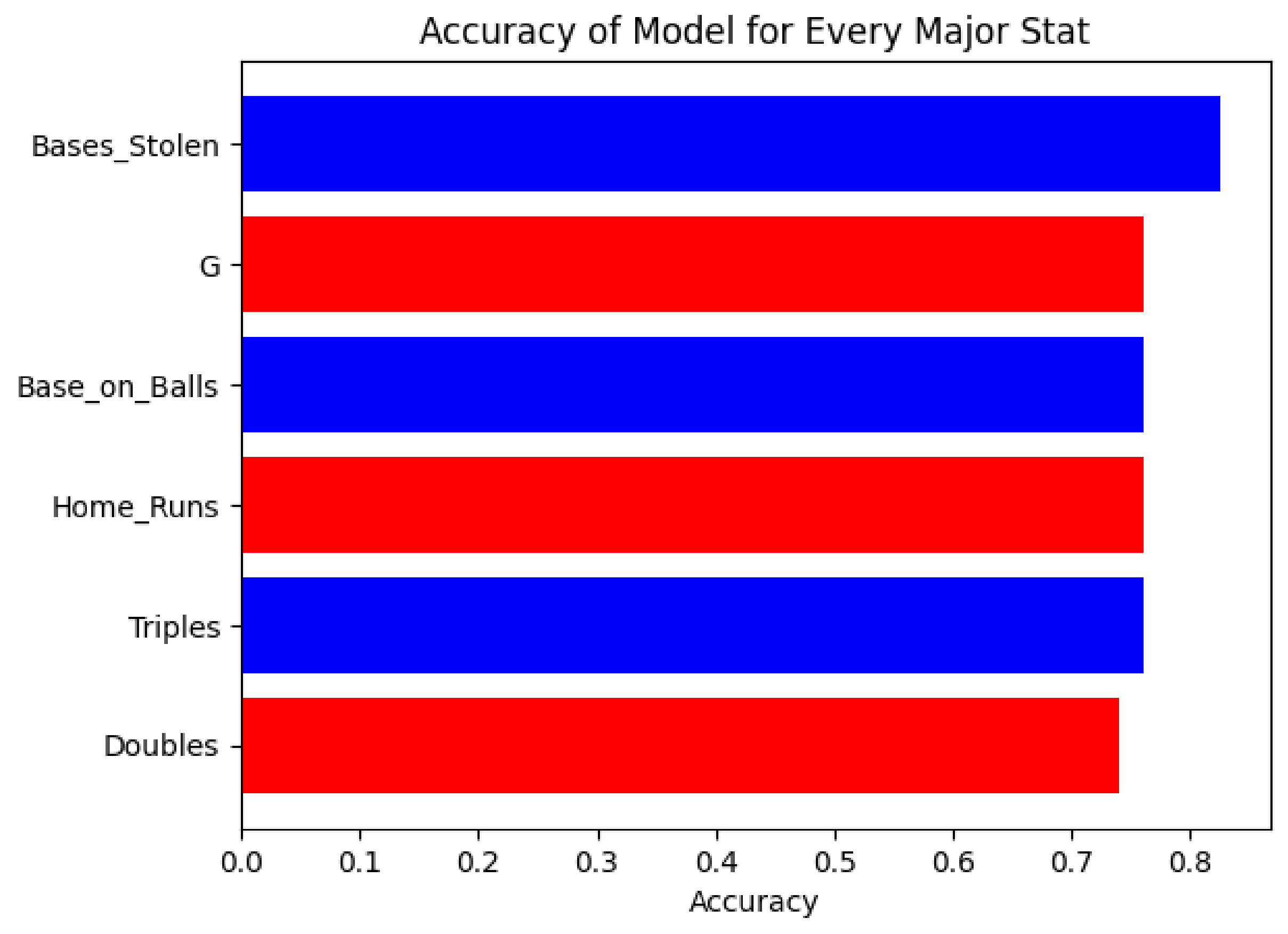
Most HOF-ers played 17 to 21 years.

Figure 2



The bar graph shows that only 30% of the most efficient players enter the HOF.

Figure 4



When factoring in career length, every model recorded over 70% accuracy

Methods

- Career stats were measured by filtering the top 25% of players and obtaining the mean of HOF status
- Created average game stats by dividing Career Stats by games and obtaining the mean of HOF status
- Logistic regression models were made using a major stat and the games column to compare accuracy with each other

Conclusion

- Statistical greatness wasn’t enough to guarantee HOF status.
- Career longevity was the strongest predictor of HOF induction from the 1910s to the 1950s (e.g., 17-21 years).
- Only 30% of these elite players were inducted since the best player stats were consistent.
- Every model had over 70% accuracy.

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