

National League West Division

Which MLB team in the NL West is most likely to win the division in 2023, using the 2015-2019 & 2021 seasons' statistics as training data & the 2022 season statistics as the test data

Arizona Diamondbacks

Colorado Rockies

Los Angeles Dodgers

San Diego Padres

San Francisco Giants



The Stats

SLG: Slugging percentage represents the total number of bases a player records per at-bat

BAVG: Batting average; determined by dividing a player's hits by their

total at-bats

SB: Stolen Bases

H: Hits

W: Wins

Win%: Wins/162(games in a season)*100

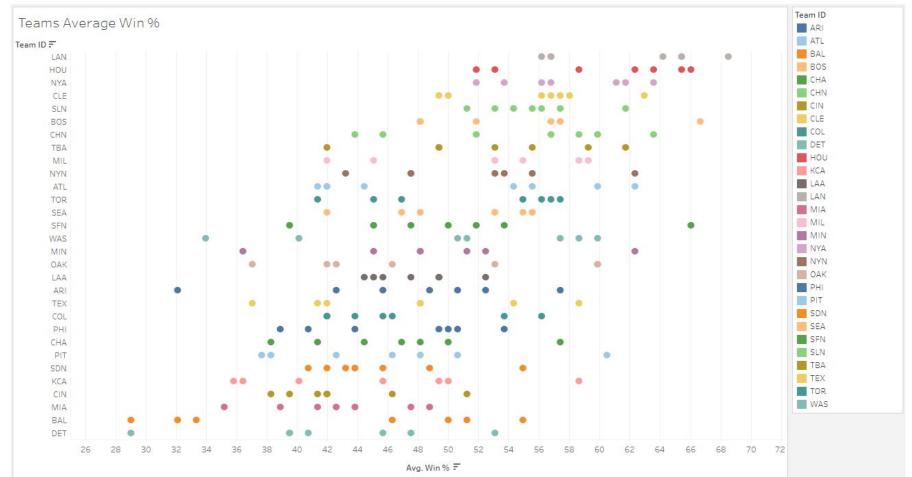
The Data

- 6 years of MLB Team Data
- 1 Year = 162 games per team
- Narrowed Data down to 5 MLB Teams in the NL West Division



Average Win Percentage



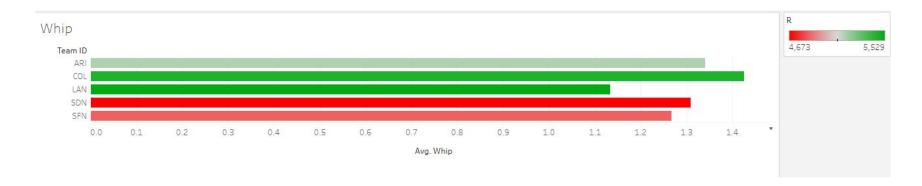


Averages



Walks and Hits per Inning Pitched (WHIP)

Michael data r^2



Machine Learning

- Features: SLG, SB, and BAVG
- Target: Total runs over 790
- Target 2: Total runs under 669

- 90% accurate for low performers
- 88% accurate for high performers

Name	Acc	Loss	L1	L2	L3
Low Scores	0.880952	0.218548	8	5	
	0.904762	0.216655	20	10	
	0.904762	0.237874	40	20	
	0.880952	0.37577	40	20	10
	0.904762	0.344131	50	35	
High Scores	0.857143	0.319566	8	5	
	0.857143	0.26119	20	10	
	0.857143	0.260892	25	10	
	0.880952	0.262558	20	20	
	0.857143	0.272693	30	30	10



Conclusion

In Conclusion,