Cabria Lee | Dr. Parenteau | St. Thomas University

Problem Overview

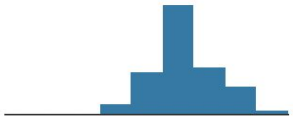
- Statement of the problem
- Data Source
- Description
- Data analysis and models
- Conclusion

Statement of the problem

Do college basketball teams win more games based on adjusted offensive efficiency or defensive efficiency, based on past data and statistics?

Data Source

The data source is from Kaggle. It shows data from 2013-2021.

TEAM	CONF	G	W
The Division I college basketball school	The Athletic Conference in which the school participates in (A10 = Atlantic 10, ACC = Atlantic Coast Conference, AE =	Number of games played	Number of games won
355 unique values	ACC 4% A10 4% Other (2254) 92%	 15 40	 0 38
North Carolina	ACC	40	33
Wisconsin	B10	40	36
Michigan	B10	40	33
Texas Tech	B12	38	31
Gonzaga	WCC	39	37
Kentucky	SEC	40	29
Michigan	B10	38	30

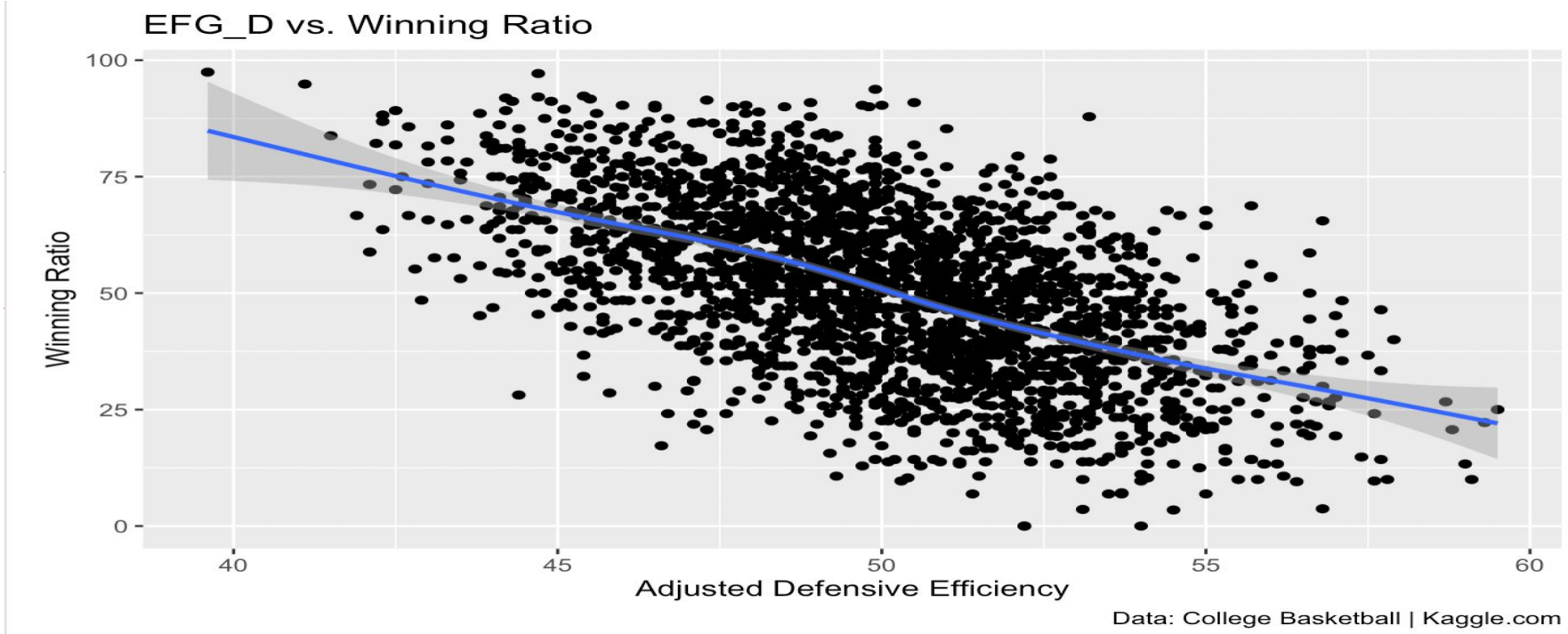
Description

The NCAA makes predictions each year on which team is favored to win the March Madness. These predictions are based on stats correlating to the most wins and points scored. There's a saying that defense wins championships. Based on data, you can conclude that defensive efficiency matters more than offensive efficiency. So, these teams have more successful seasons.

I analyzed data from the 2013-2021 division I college basketball seasons.

Data Analysis

- The winning ratio is higher when the adjusted defensive efficiency is lower.



Conclusion

Based off data, adjusted defensive efficiency correlates to more winning seasons in college basketball. The relatively narrowed scope of college basketball allows for a straightforward analysis of team efficiencies.