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Problem Overview

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.

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%		
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

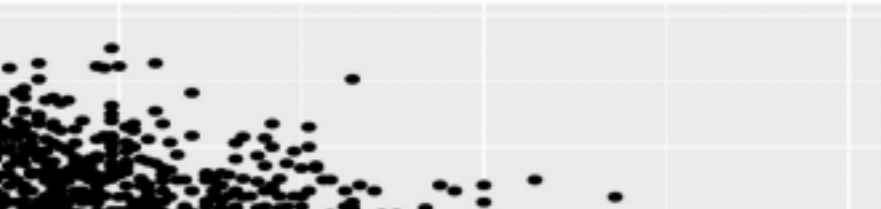
Description

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.

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team efficiencies.

Conclusion

Based off data, adjusted offensive efficiency

correlates to more winning seasons in college

basketball. The relatively narrowed scope of college

basketball allows for a straightforward analysis of