





Trends and Transitions: NCAA Basketball Player Performance in the NBA

Analyzing Performance Trends and Gap











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Motivation

What drives us to the project



Trends

Trends in NCAA vs NBA from 2014 to 2018



Players

Using an innovated Magic Formula to evaluate plays performance in NCAA vs NBA



Summary

What's the key insights and recommendations



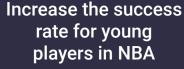




Our motivation for this project



Basket Industry













Popular Games Players Incubator







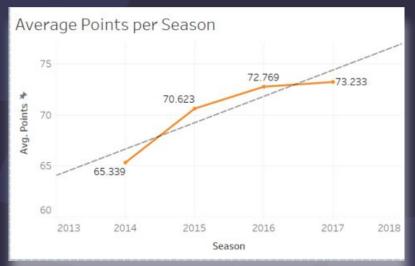
THE TRENDS

Trends in NCAA from 2014 to 2018

The Shift in How Basketball is played.

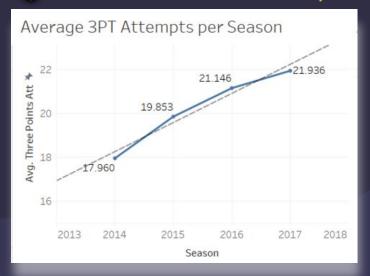


Higher Scoring Games





Increased Three-Point Attempts

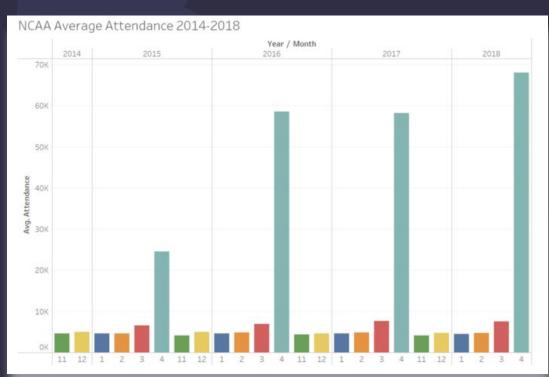


- Analytics-Driven Strategies: Teams have shifted focus toward efficient scoring methods, such as three-point shooting, as a result of modern analytics.
- Impact on Player Roles: Greater emphasis on three-point shooting has reshaped team dynamics, prioritizing shooters and spacing over traditional interior play.



The Shift in How Basketball is Played

Increasing Attendance



- Style of Play: Faster-paced, high-scoring games have attracted larger audiences, making basketball more appealing to both long-time fans and new spectators.
- Fan Connection: Teams' adoption of exciting offensive strategies, such as three-point shooting, has enhanced the entertainment value of the game.
- Business Opportunities: Growing attendance reflects a broader trend of increased marketability and sponsorship potential for basketball as a sport.





NCAA vs NBA: 3-Point Shooting Performance



NCAA players consistently exhibit slightly higher 3-point percentages

The NBA requires adaptation to longer distances and tighter defenses

Key takeaway:

Evaluating shooting mechanics and adaptability is critical for predicting NBA success

NCAA vs NBA: Field Goal Efficiency

Field goal percentages between NCAA and NBA are closely aligned

Strong shot selection and finishing ability in college often translate well to the NBA

Key takeaway:

Players with consistent efficiency in NCAA are reliable candidates for success in the NBA





Player Performance Accumulator Formula



The score values for players: the lower the better!!!



Overrated Player: Ron Baker

Ranking in NCAA V.S. NBA						
2013	2014	2015	2016			
Top 7	Top 1	Top 11	Top 322			



The score values for players: the lower the better!!!

Underrated Player: Karl-Anthony Towns

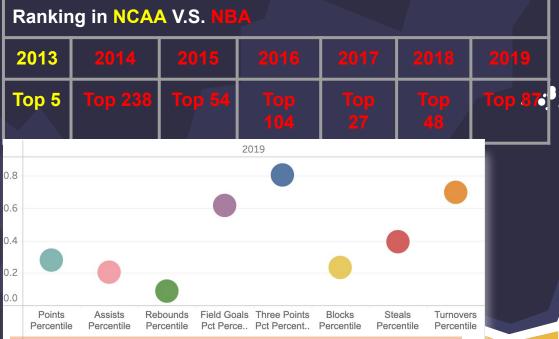
•4	Ranking in NCAA V.S. NBA				
•	2014	2015	2016	2017	2018
	Top 514	Top 13	Top 8	Top 3	Top 2







Fairly Rated Player: Aaron Gordon



The score values for players: the lower the better!!!

Dashboard

Let's explore more...





Recommendations



Matchup Planning

Leverage the Magic Evaluation Formula for better matchups



Talent Evaluation

Identify undervalued players (e.g., Karl-Anthony Towns) and improve draft, trade, and free agency decisions



Media & Marketing

Use data to optimize game scheduling, boost viewership, and plan marketing campaigns





Bring in More Comprehensive Data

Apply to the Field

Sustainable Success

Develop tools integrating machine learning and predictive analytics to refine metrics.

Collaborate among stakeholders (coaches, scouts, executives) for innovation and enhanced competitive advantage.

Use insights to create adaptable frameworks for sustainable success in modern basketball.



Do you have any questions?