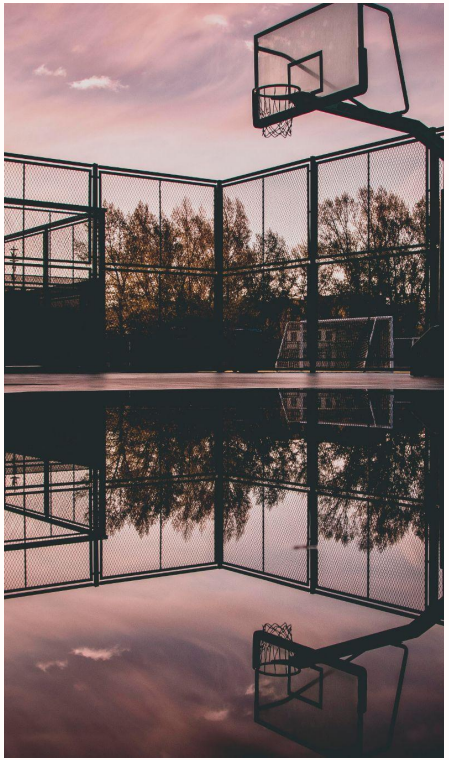
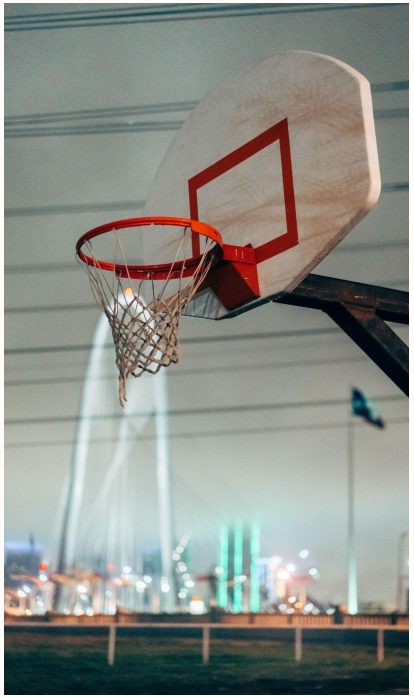
Analysis of Euro League and NBA Data



Agenda

1. About the Project
2. Problem Statements
3. Visualizations
4. DEMO
5. Recommendations



About the Project

- Provide basketball scouts and analysts with insights into the performance of the players in the two leagues.
- Analyzing the data and creating visualizations.
- Providing a competitive edge to the stakeholders in the world of professional basketball recruitment.

Target Audiences

Euro League Players	Discovering areas for improvement in their game to increase their chances of being scouted by NBA teams.
Analysts	Analyzing the similarities and differences between the playing styles of the two leagues.
Scouts	Identifying potential stars in the Euroleague to introduce them to the NBA.
Agents	Improving clients' weaknesses to increase chances of becoming NBA prospects.

SUMMARY OF THE DATA

Type	Field Name
Abc	League
Abc	Season
Abc	Stage
Abc	Player
Abc	Team
#	GP
#	MIN
#	FGM
#	FGA
#	3PM
#	3PA
#	FTM
#	FTA
#	TOV
#	PF

#	ORB
#	DRB
#	REB
#	AST
#	STL
#	BLK
#	PTS
#	Birth Year
Abc	Birth Month
📅	Birth Date
📅	Height
#	Height Cm
#	Weight
#	Weight Kg
Abc	Nationality

Abc	High School
#	Draft Round
#	Draft Pick
Abc	Draft Team
Abc	Position

- Dataset provided by Kaggle
- Data includes player info and stats such as PTS, AST, REB, and more.
- 49 leagues around the globe and more than 11K players from 1999 to 2020 (20 seasons)
- Focusing on Euro League and NBA

Problem Statements

What is the Distribution of International Players in the NBA?

Is 3 points shot becoming more critical in both leagues?

Will height affect the performance in Rebounding & Blocking?

Problem Statements

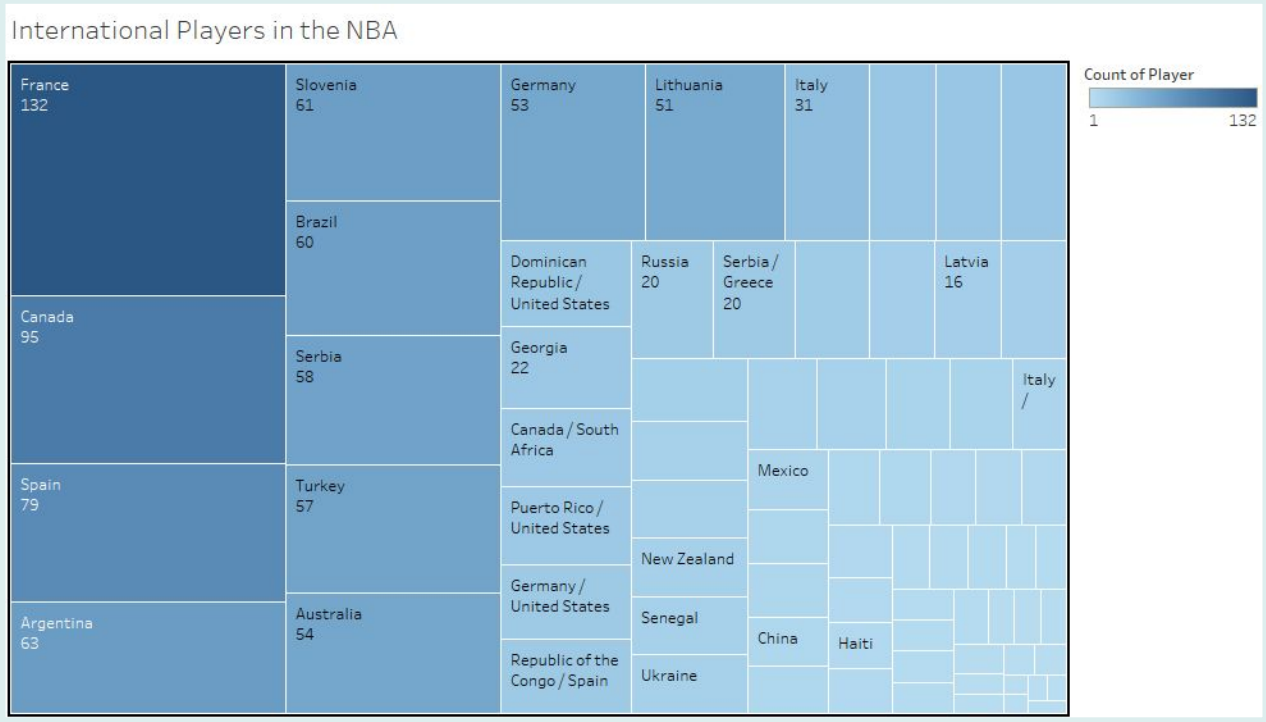
Is it true that Euroleague players are better at passing?

As most leagues are approaching a small ball play style, is it true that players' average height & weight are lower than before?

What is the scoring potential and playstyle in the Euro League and NBA?

WHAT IS THE DISTRIBUTION OF INTERNATIONAL PLAYERS IN THE NBA?

(TREE MAP & WORLD FILLED MAP)

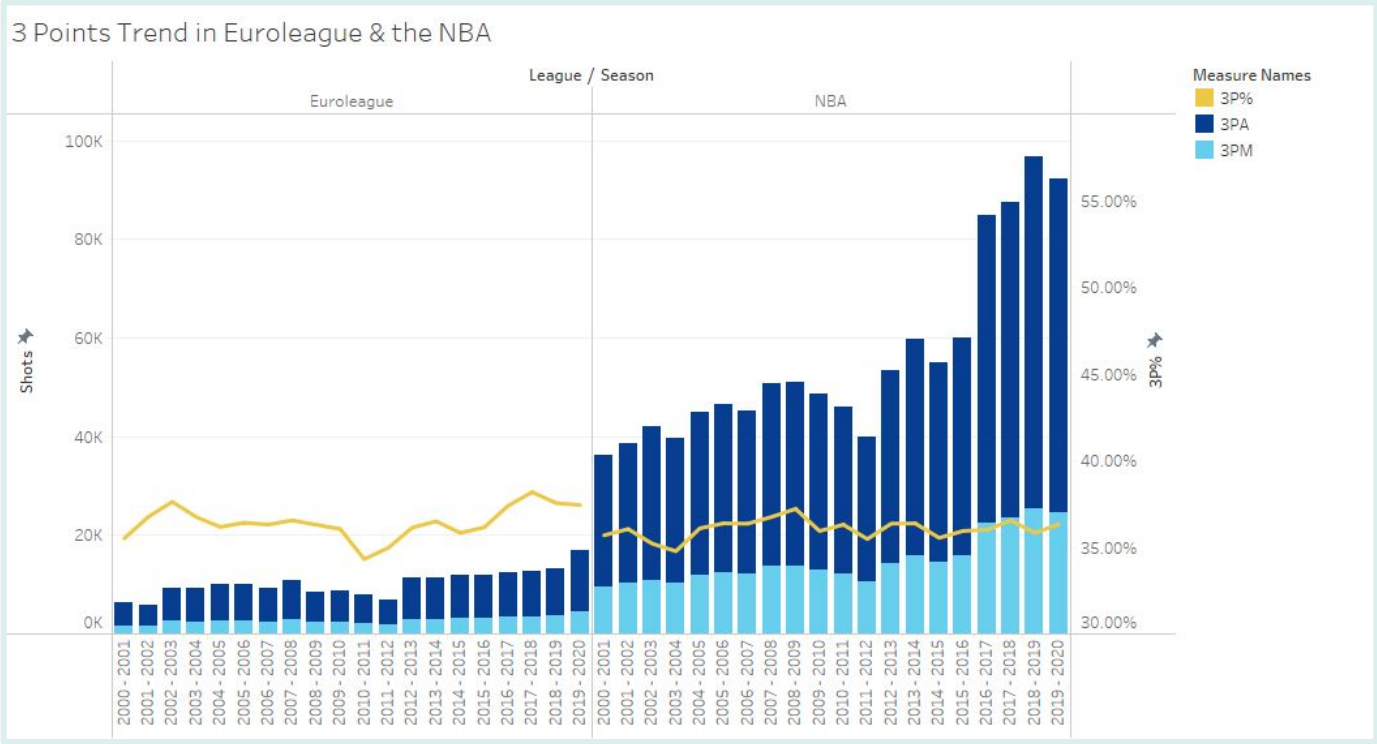


What is the Distribution of International Players in the NBA?

(Tree Map & World Filled Map)

IS 3 POINTS SHOT BECOMING MORE IMPORTANT IN BOTH LEAGUES?

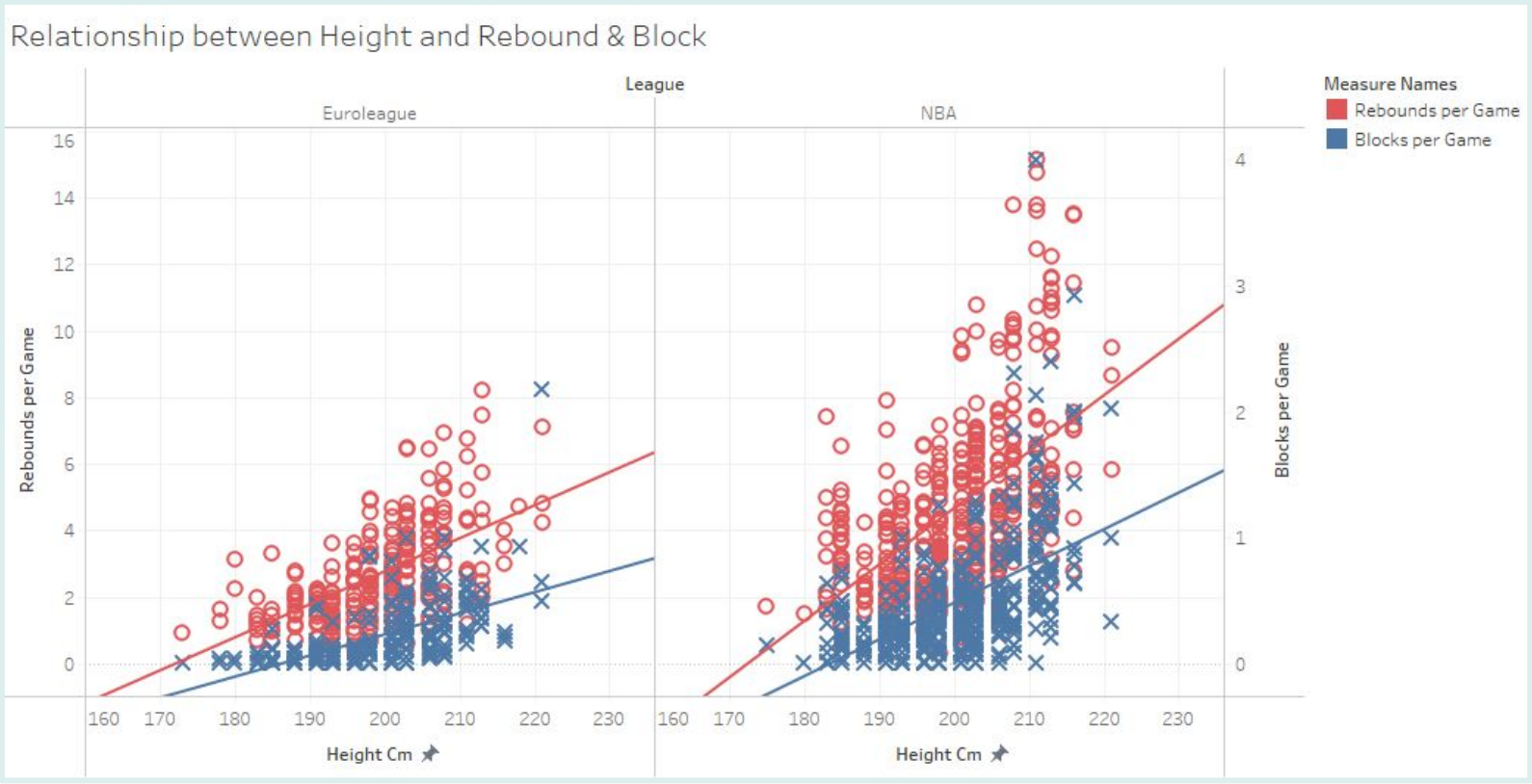
(DUAL-AXIS & COMBINED-AXIS CHART)




```
Sum([3PM])/sum([3PA])
```

WILL HEIGHT AFFECT THE PERFORMANCE IN REBOUNDING & BLOCKING?

(DUAL-AXIS SCATTER PLOT)



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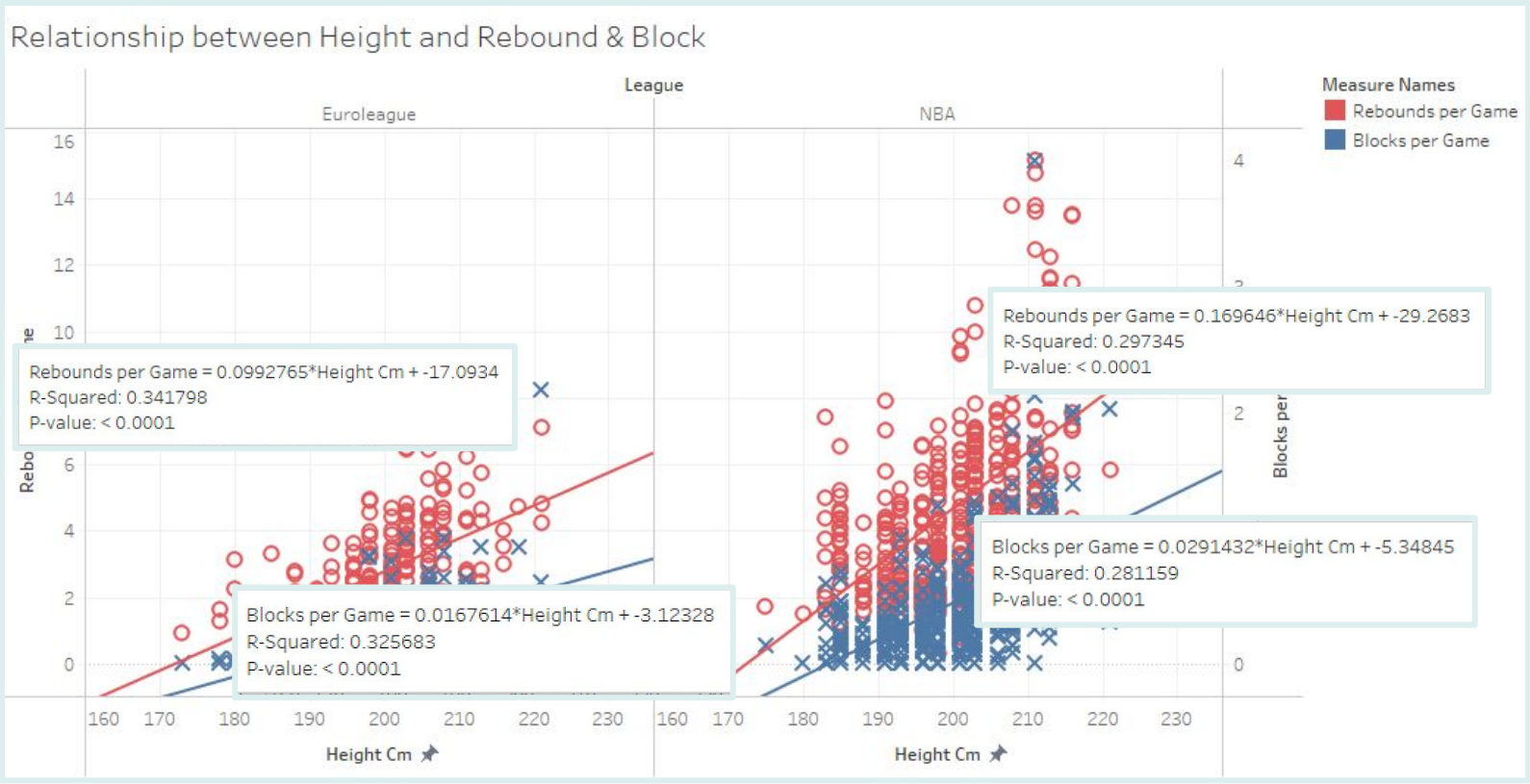
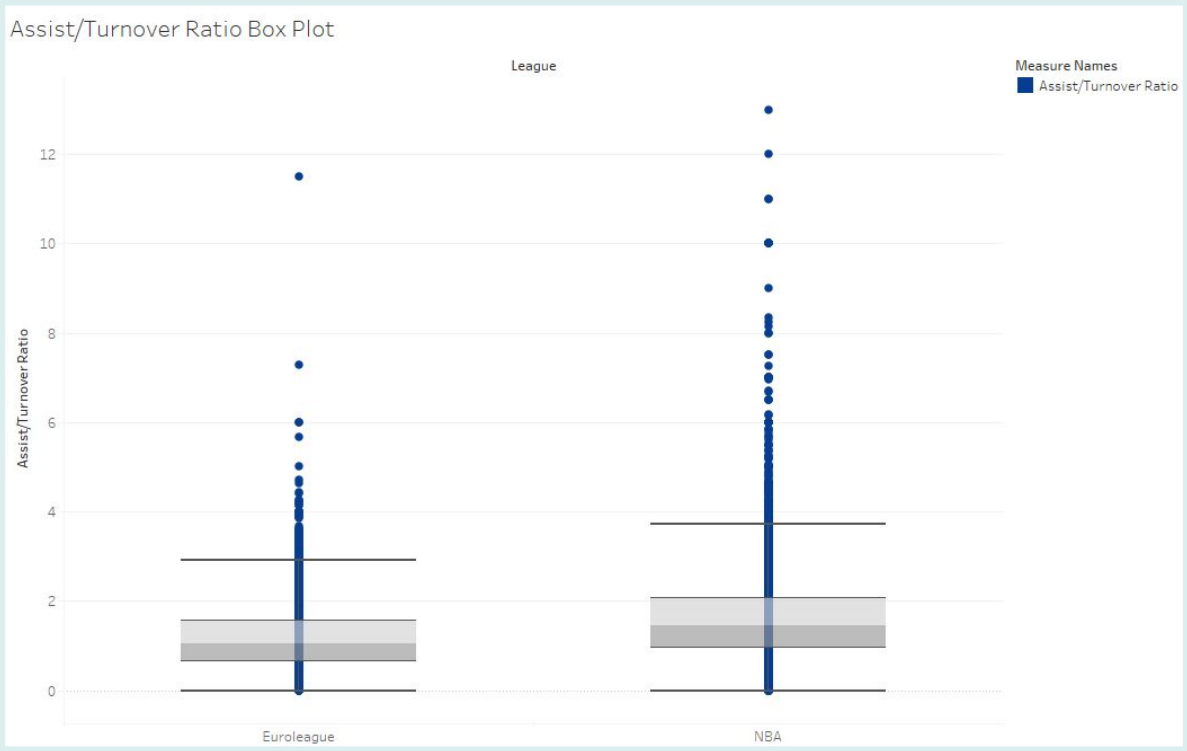


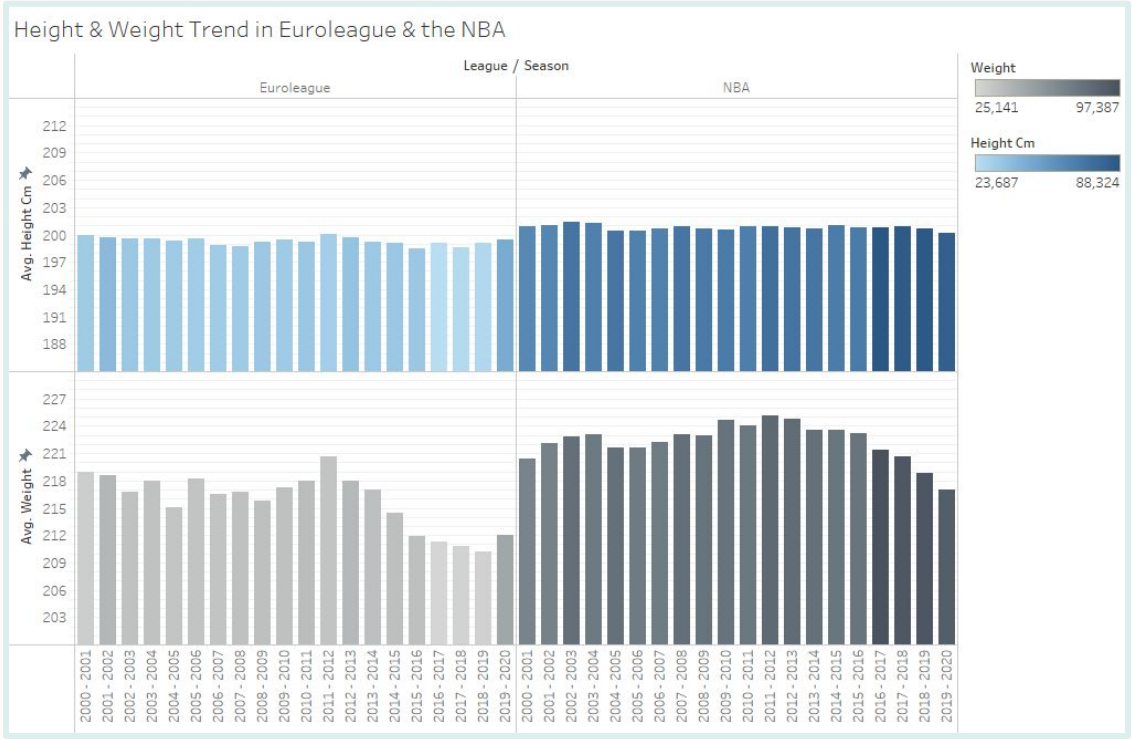
Assist/Turnover Ratio

(Box Plot)



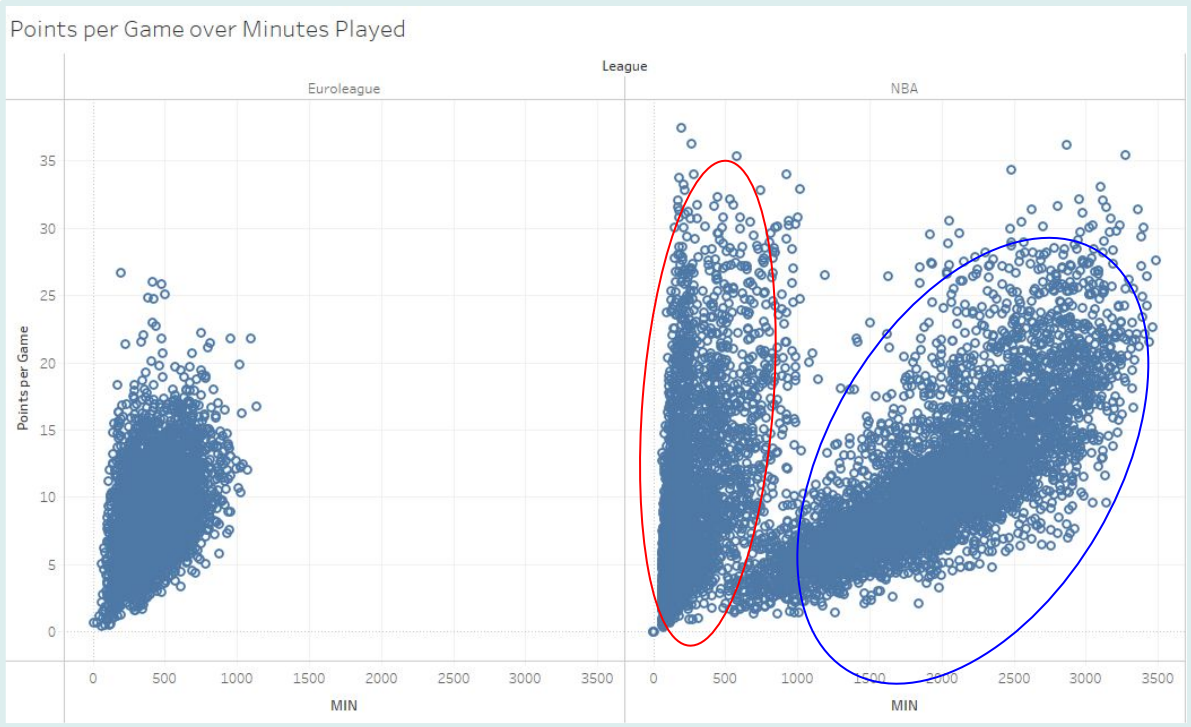
AVG. HEIGHT & AVG. WEIGHT

(BAR CHART)



POINTS PER GAME VS MINUTES PLAYED

(SCATTER PLOT)

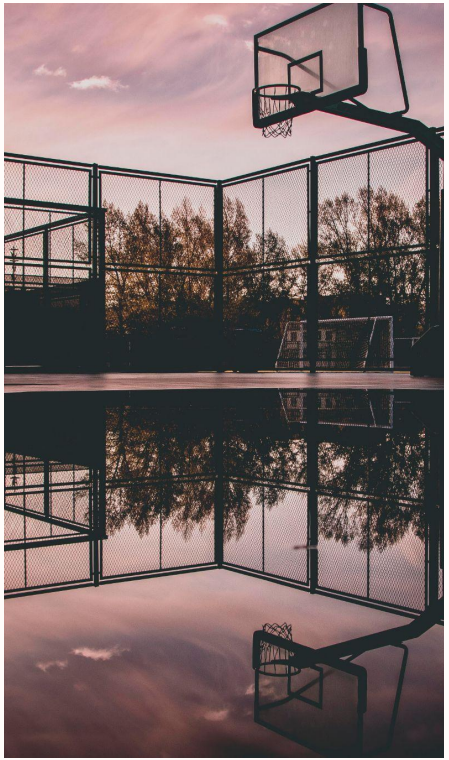


Points per Game

```
SUM([PTS]) / SUM([GP])
```

- Both are positively correlated
- 2 distinct clusters in the NBA
- Red - Highly efficient scorer but lack other abilities (passing, dribbligs, etc.)
- Blue - Average scorer but may have a more complete or balanced attribute

DEMO

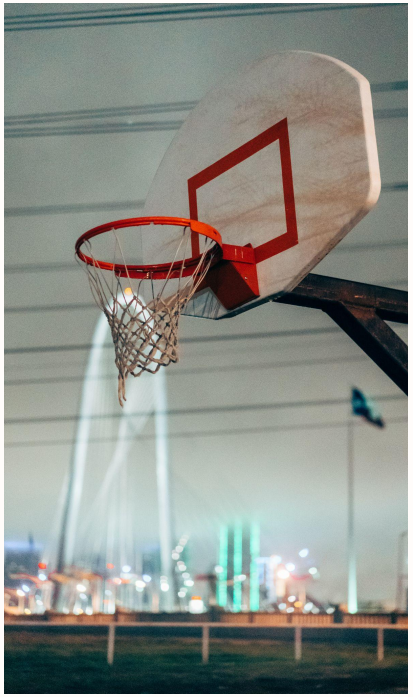


Recommendations

Euro League Players	• 3 pointer trend in the NBA • Taller players tend to get more rebounds and blocks • The stereotype about Euroleague players are better are passing is false • NBA players average weight is dropping
Analysts, Scouts, Agents	• Send out personnel to countries such as France, Canada, and Spain • Looking for players who expert in 3 pointer • Targeting taller Euroleague players to play C or PF • Euroleague guards are not neccessary good at passing • It is still a sport for tall-player. • Finding efficient players could help the team to fill in minutes.

THANKS!

Do you have any questions?



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