

Final Project

Part 1

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Data set

- Tracks the possessions and points for each lineup played over the course of the season
- Divides the possessions and points based on offense and defense
- Workbook contains every game individually as well as a spreadsheet with the total for the season

Problem # 1: Which players play best at which position?

- Players play multiple positions depending on the lineup
- The data tracks the position each player plays in each lineup
- Also can look at if other players impact the position certain players play
- Will be helpful for the head coach when putting together rotations and to better understand the individual players

Hypothesis #1

- I believe that most players will play better at lower positions, encouraging us to play smaller
- Since the data tracks team efficiencies, any indicators that point to certain players playing definitively better at certain positions will be helpful to our coaching staff

Problem # 2: Can preseason efficiencies help predict how players will perform during conference games?

- We play 15 preseason games to help us get ready for our conference schedule which consists of 14 games
- The opposition we face during preseason games are against better competition
- Other metrics can be used including outside factors like lack of sleep, test scheduling, and travel schedules

Hypothesis # 2

- It will be difficult to predict future performance using only team efficiencies
- The level of play between our conference and non-conference opponents is significant
- Since the season has already concluded, I can compare predicted numbers to the actual numbers

Problem # 3: Is there a difference in player performance between home and road games?

- About half of our schedule is played on the road
- In other sports, there is an identifiable difference between home and road splits
- Can identify which players play better/worse depending on where the game is played

Hypothesis # 3

- Based on other sports, we as a team should play better at home because we are more comfortable and have the support of the home crowd
- Identifying players that have clear differences between playing at home versus on the road will be very beneficial