NBA Stats that Translate to Team Success

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Agenda

- Business Question
- Methodology
- Findings
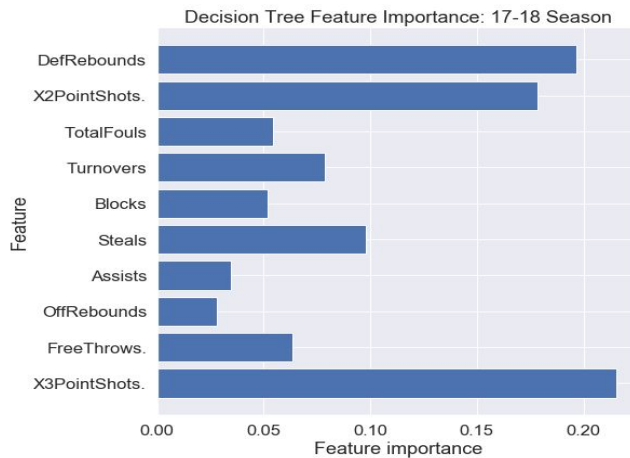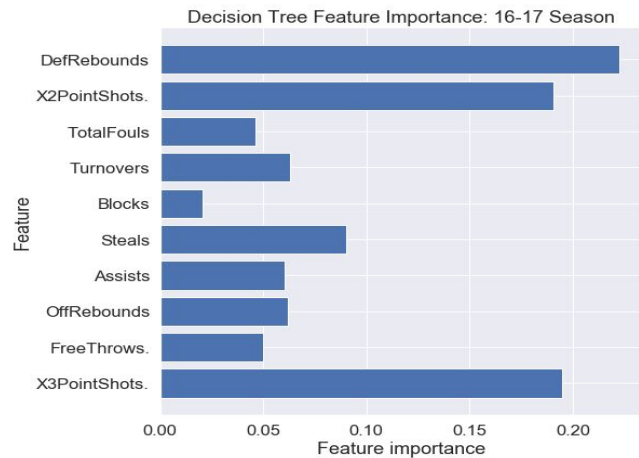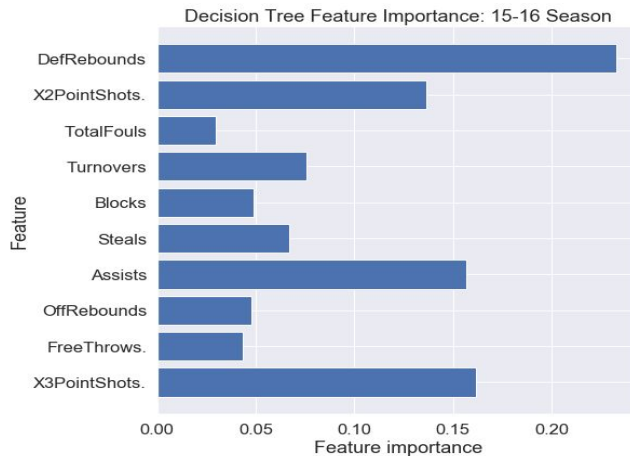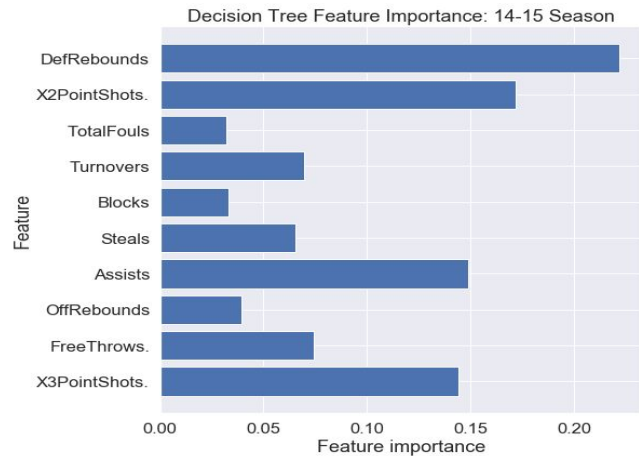- Recommendations
- Next Steps

Business Question

"What insights can we gather from NBA game statistics that can better our team?

Methodology

1. Create a classifier model to predict games with game statistics
2. Run model on last 4 seasons of data
3. Observe the change in importance of game statistics

Findings

Decision Tree Feature Importance: 14-15 Season

Decision Tree Feature Importance: 15-16 Season

Decision Tree Feature Importance: 16-17 Season

Decision Tree Feature Importance: 17-18 Season

Recommendations & Next Steps

- Emphasize defensive rebounding strategy in practice:
  - Chances per possession = 1
- Improve three point shooting through multiple avenues:
  - Develop players in practice
  - Trade for players
  - Draft players
  - Develop offensive strategies to get open three point shots
- Defense wins games
  - Develop defensive strategies around reducing fouls and disciplining players to not swat at shots
  - Blocking shots isn't worth the potential foul