# **NBA Player of the Week Analysis**

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#### **Agenda**

- 1. Project Context
- 2. Dataset Variables
- 3. Dataset Analysis
  - a. Summary Statistics
  - b. Awards won by Various Categories: Player, Team, Position,
    Conference
  - c. Draft Year & Draft Age
- 4. Conclusion

#### **Project Context**

- Client: National Basketball Association Archives Committee
- **Title:** NBA Player of the Week
- Source: GSB-S524 Computing and Machine Learning for Economics
  - 1984-2018
- Goals:
  - Demographics Summary
  - Awards Won by different categories
  - Age Analysis

# **Dataset Variables**

Variable Name	Variable Type	Description	
Age	Numeric (Integer)	Age of the Player	
Date	Character	Date honor was granted (In Month Day, Year Format)	
Draft.Year	Numeric (Integer)	Date player was drafted in NBA	
Height	Character	Height of player	
Player	Character	Player Name (First and Last)	
Position	Character	Player's basketball position	
Season	Character	NBA Season that award was granted during (Both years)	
Season.short	Numeric	NBA Season that award was granted during (2nd year only)	
Seasons.in.league	Numeric	Tenure in NBA at time of award	
Team	Character	NBA Team player is on at time of award	
Weight	Numeric	Weight of player	

## **Dataset Analysis**

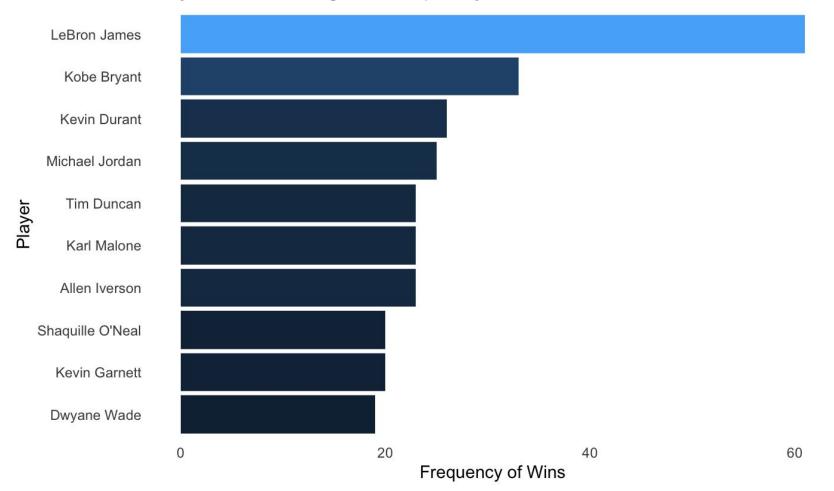
#### **Summary Statistics: Player Height, Weight, Age**

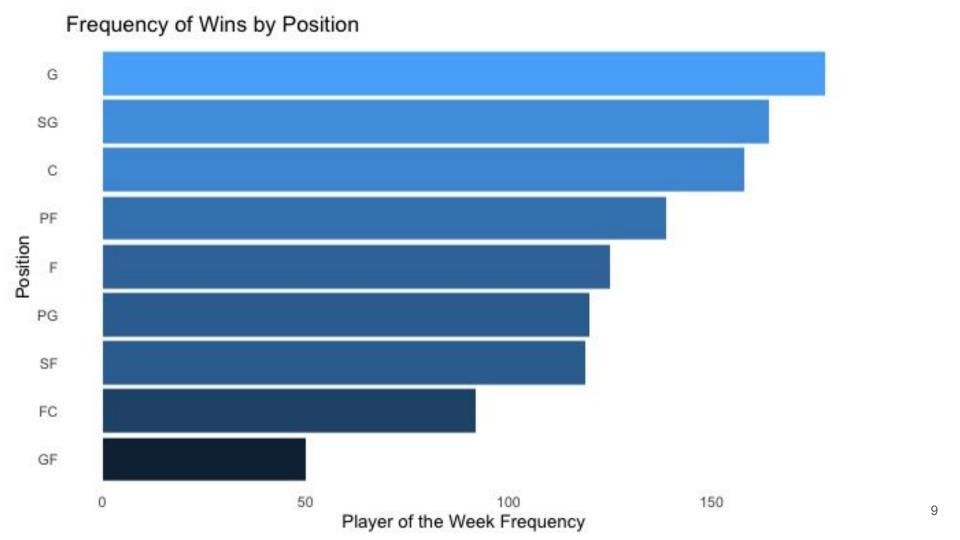
	Min	Mean	Max
Height (feet & inches)	5'9"	6'7"	7'6"
Weight (lbs)	149	225	324
Age	19	27	40

# 25% of wins went to

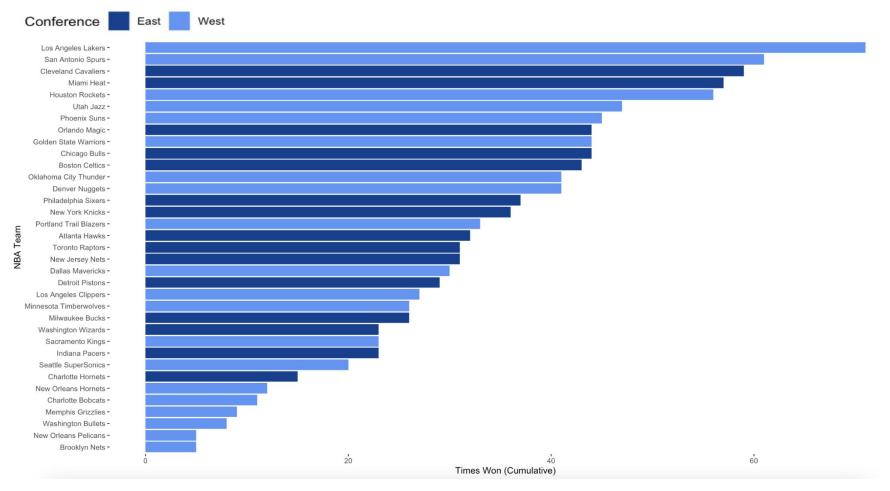
40/o of players

#### Players With the Highest Frequency of Wins

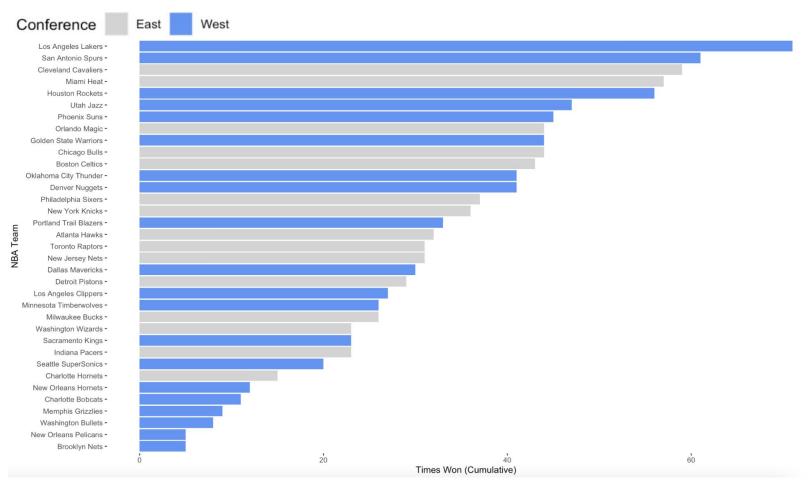




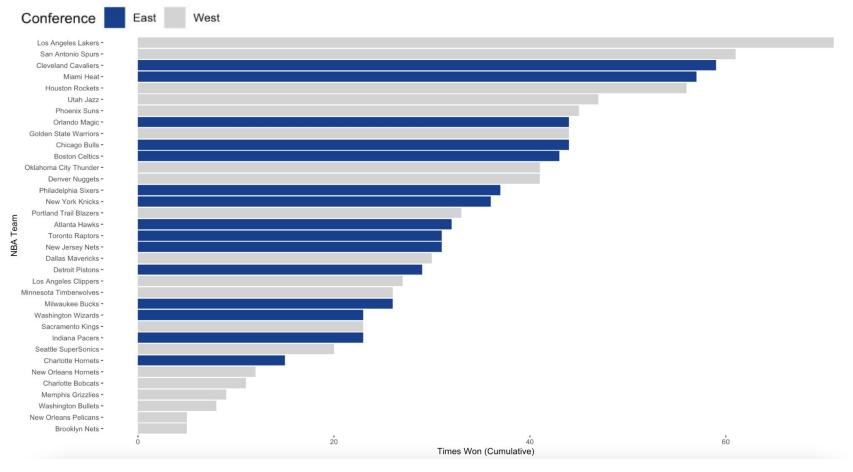
#### NBA Player of the Week Cumulative Awards by Team Since 1984



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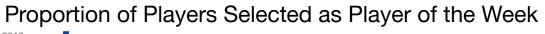
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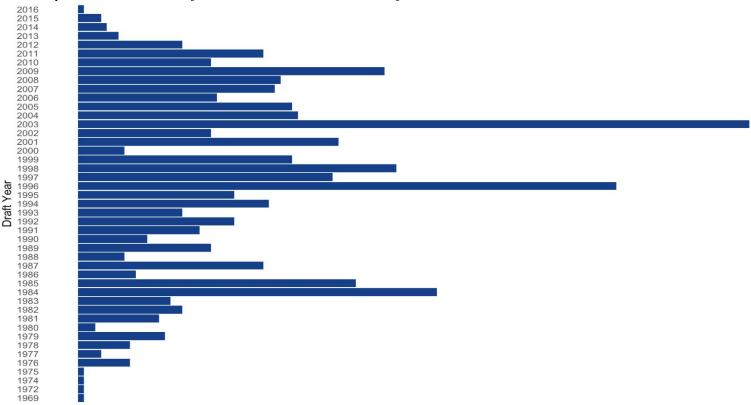


### **West vs East**

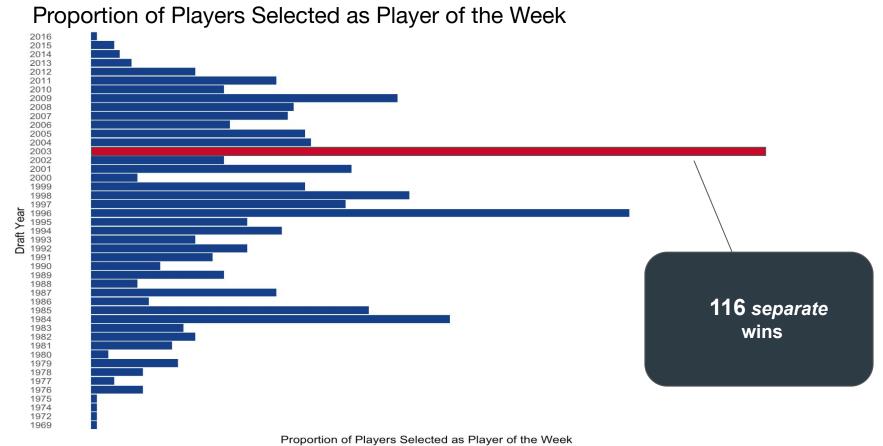
#### "Player of the Week" Awards Won, East versus West Conferences

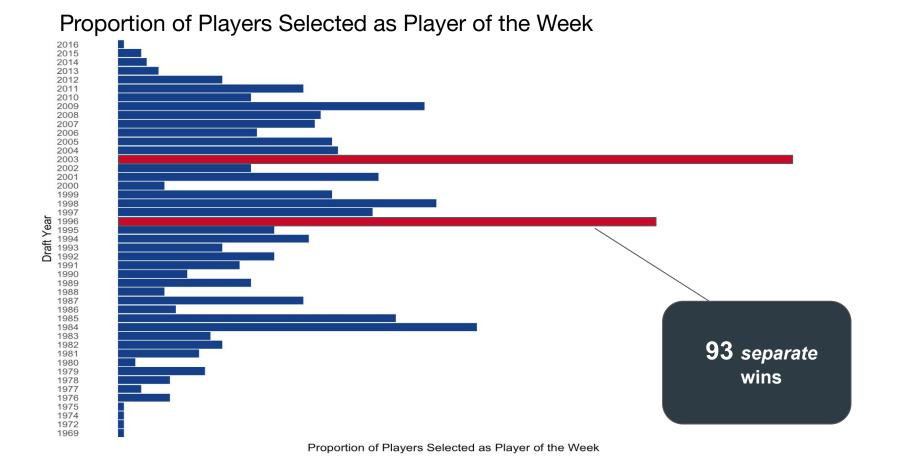
	Average Wins	Total Wins
West Conference	30.75	615
East Conference	35.33	530

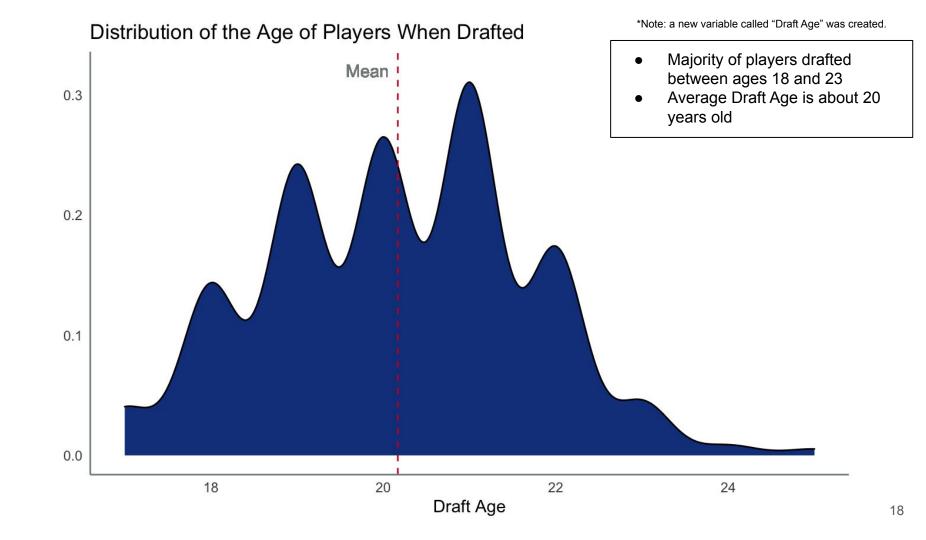


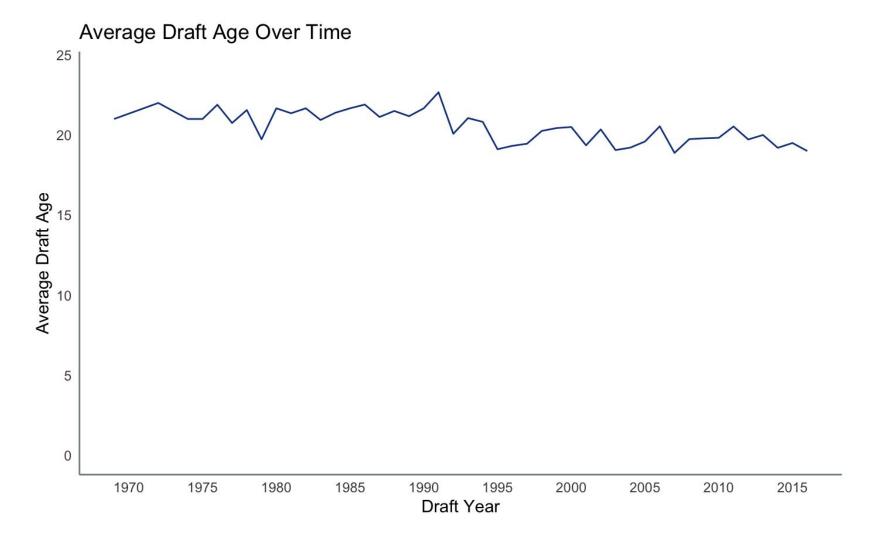


Proportion of Players Selected as Player of the Week









#### **Conclusion**

- 10 players took home 25% of awards
- LeBron James: highest number of wins
- Guard, Shooting Guard, and Center positions win with highest frequency
- East vs. West Conference
  - West: greater average wins
  - East: greater total wins
- Draft Year 2003: more player of the week awards
- Average Draft Age
  - 18 23 years old
  - Little change over time