



Ohio State Sport Analytics Hackathon

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Introduction

Goals of CFP Format

- Select Best Teams and Assign Them to Appropriate Sites

Principles

- Strength of Schedule
- Head-to-Head
- Outcomes vs Common Opponents
- Unavailability of Key Players/Coaches




































Task

- Create Optimal CFP Format





Principles in Action: 2023

Team	Ranked Wins	Notable Losses	SOR
	  		1
	   		2
	   		9
	   		4
	  		5
	   		3
	 		7

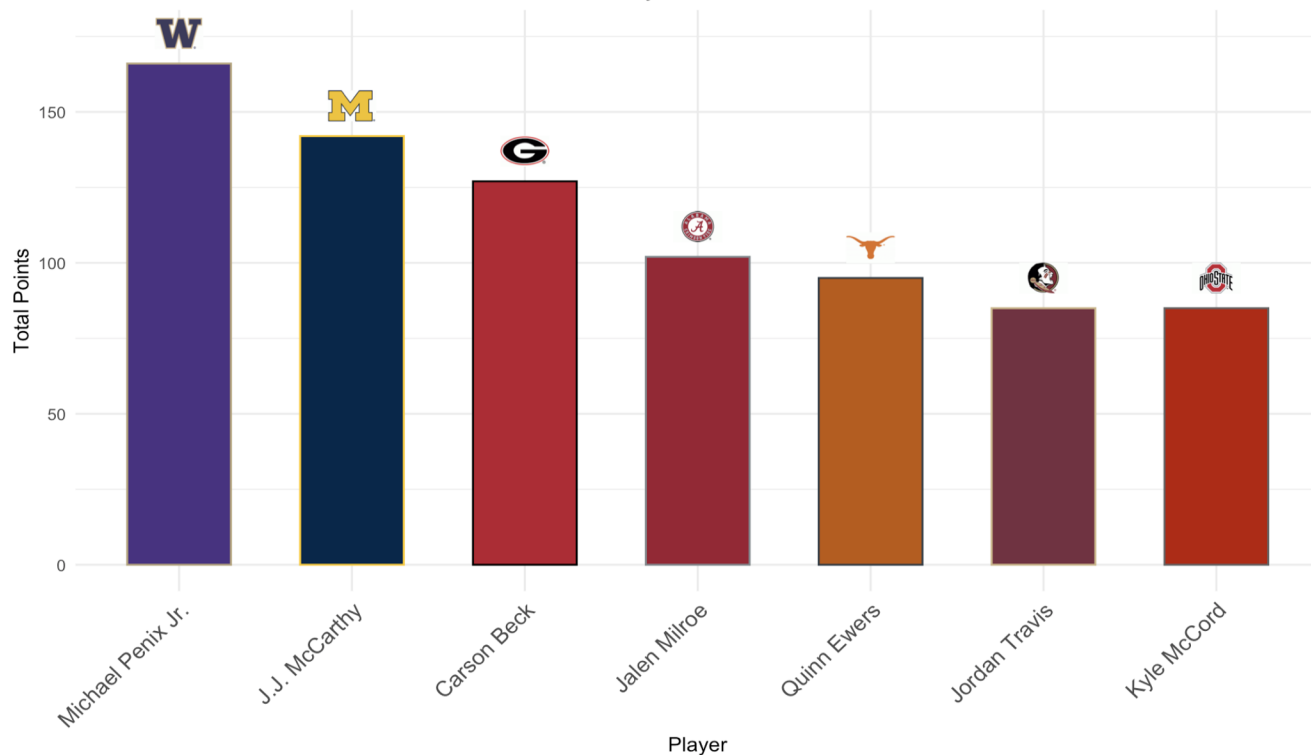




Contribution of Key Players: 2023

Total Points by Player: 2023

Travis Played 10 Full Games





Drastic Changes in 2024

1

Expand CFP From 4 Teams to 12

2

Ensured Conference Champions Make It

3

Top 4 Conference Champions Receive Bye.

4

7 Non-Conference Winners Make it.





Drastic Changes in 2024

Team	Ranked Wins	Notable Losses	SOR
	   		5
			6
	   		3
	 	 	1
	 	 	9
			8
	 		18
	  	  	17

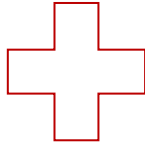




Methodology

1

**Playoff
Team
Model**



2

**Team
Entry
Amount**



3

**Optimal
Playoff
Format**





Playoff Team Model

Strength of
Record

Pass Block
Points

Run Block
Points

Pass EPA

Run EPA

Run Defense
Points

Pass Coverage
Points

Logistic Model

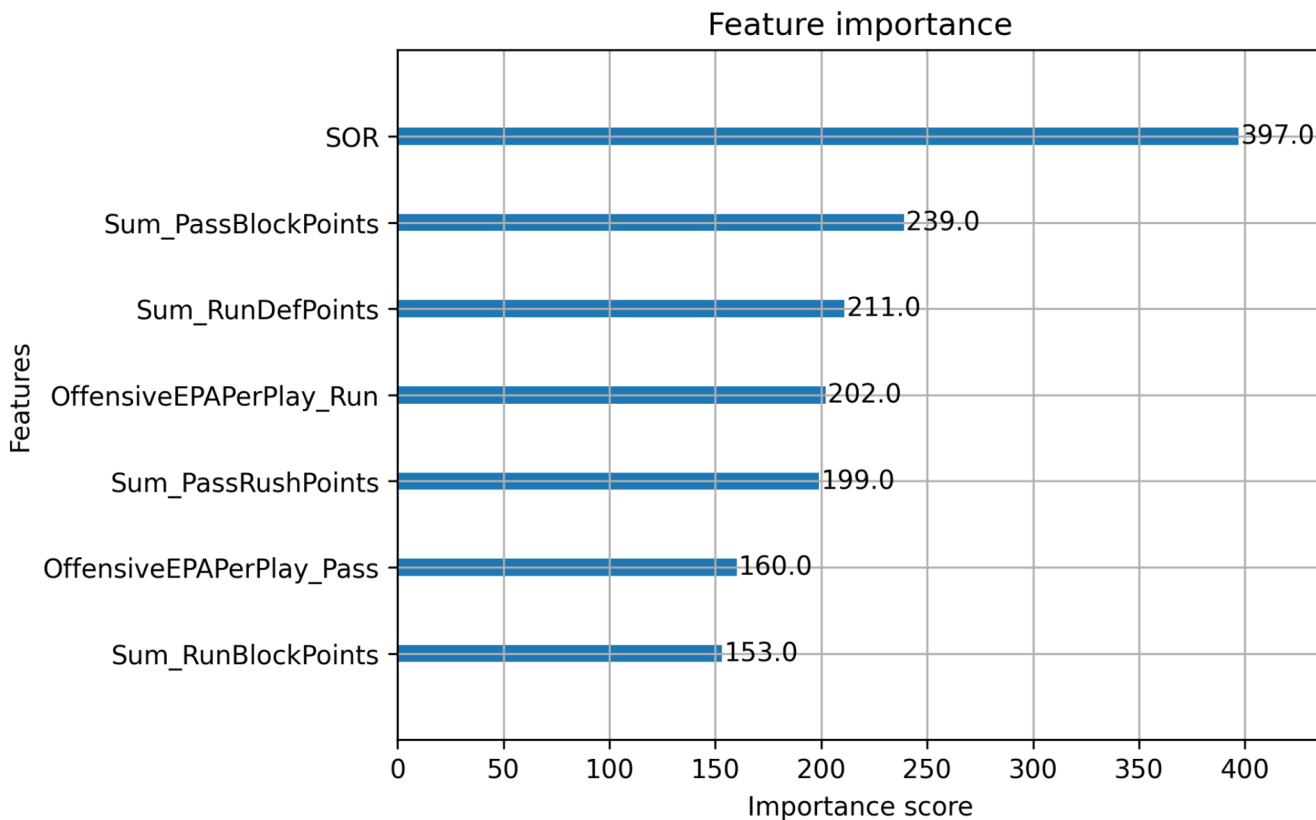
**Predicted Probability of
Making Playoffs**

**Projected Team Rankings
Based on Pure Offense, Pure
Defense, and SOR**





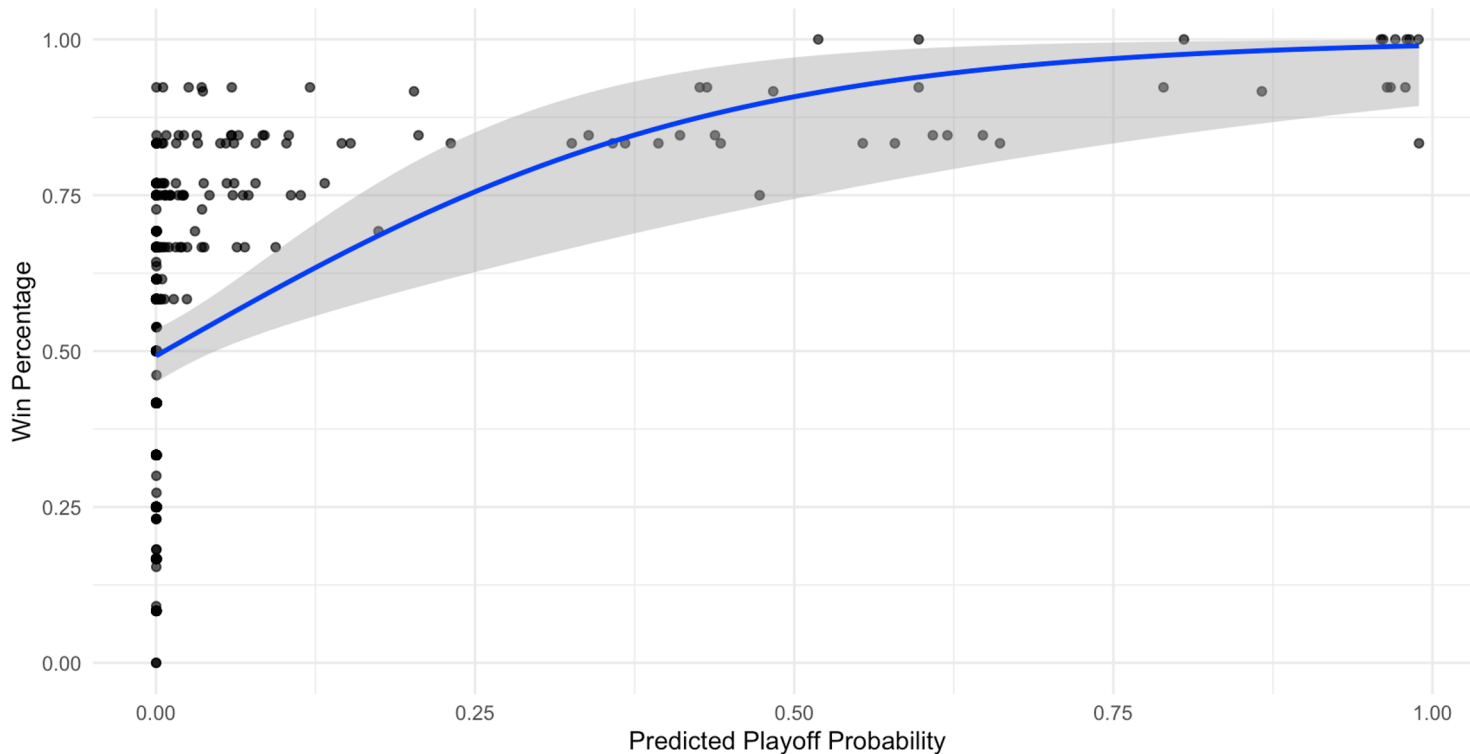
Playoff Team Model Results





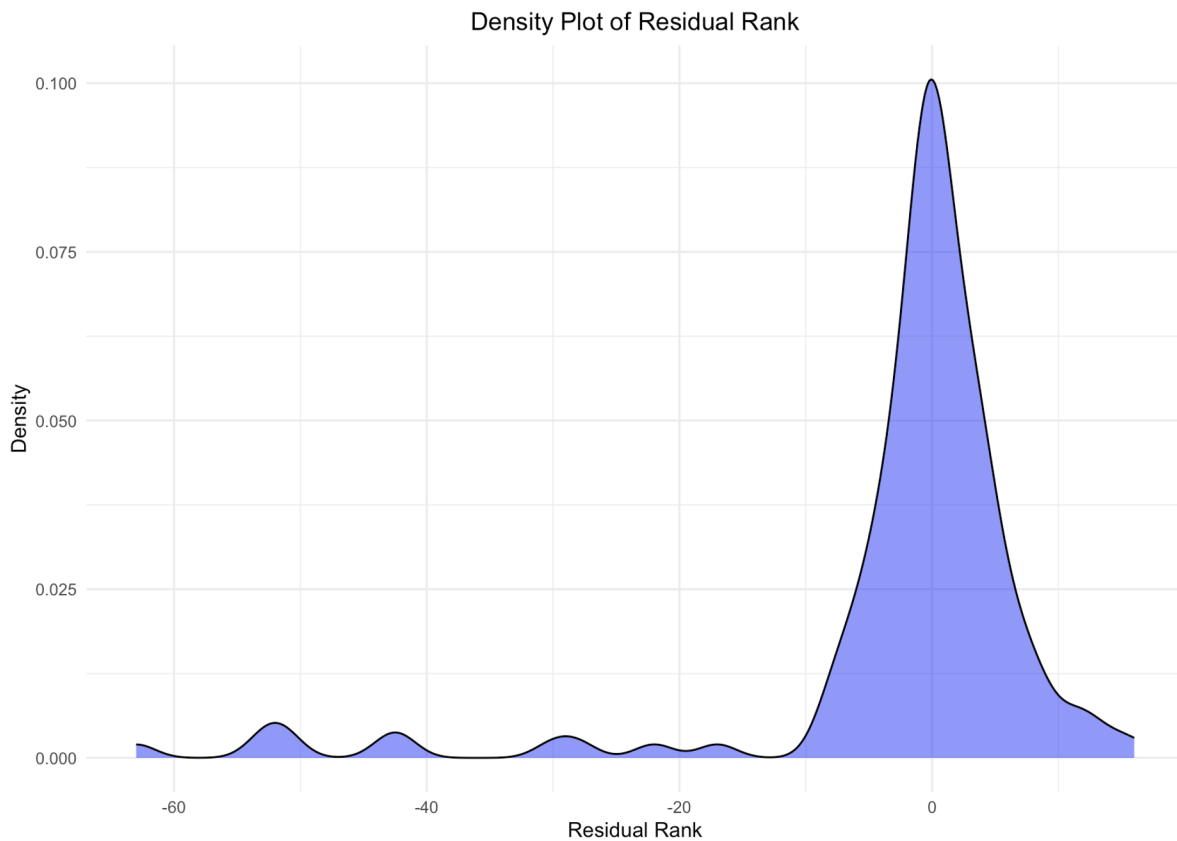
Playoff Probability vs Win Pct

Relationship Between Win Percentage and Predicted Playoff Probability
2018-2024





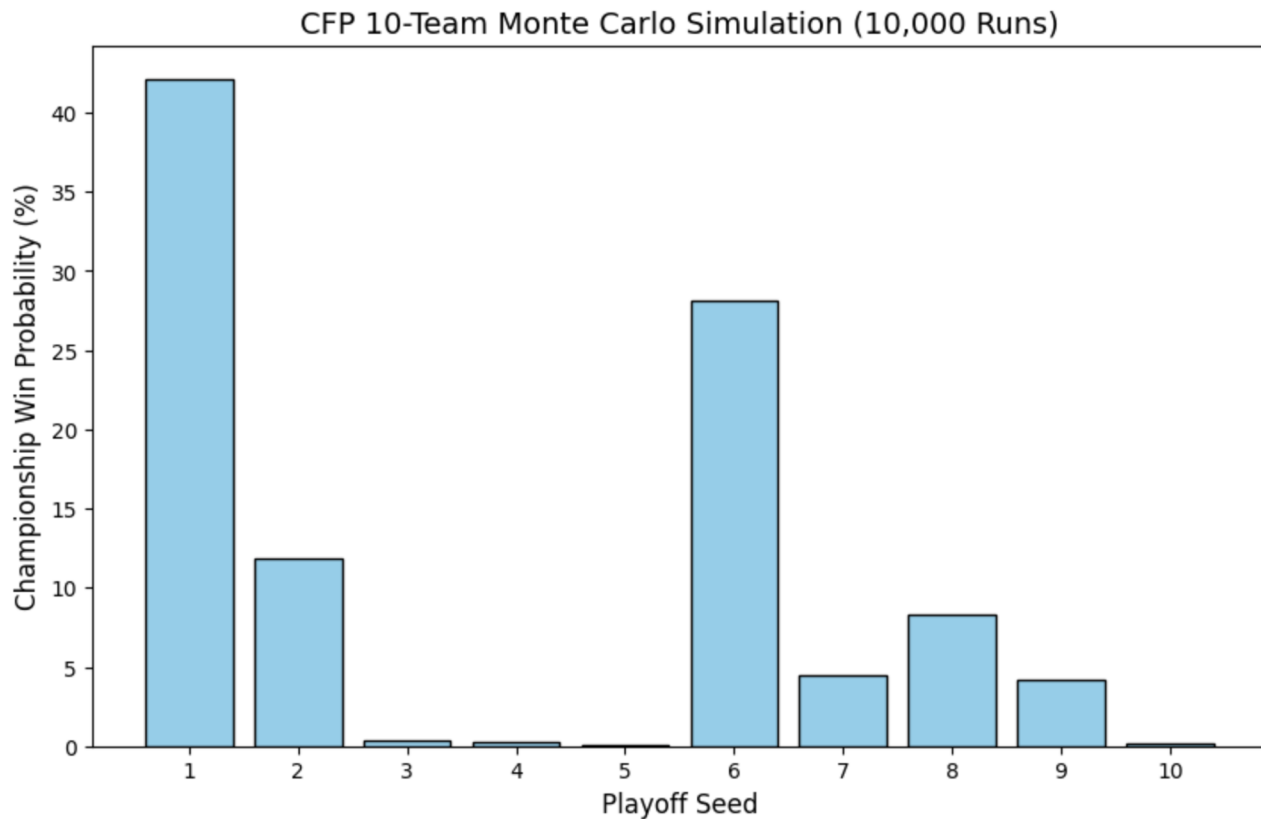
Team Validation







Why a 10-Team Format





Playoff Format: 2023

