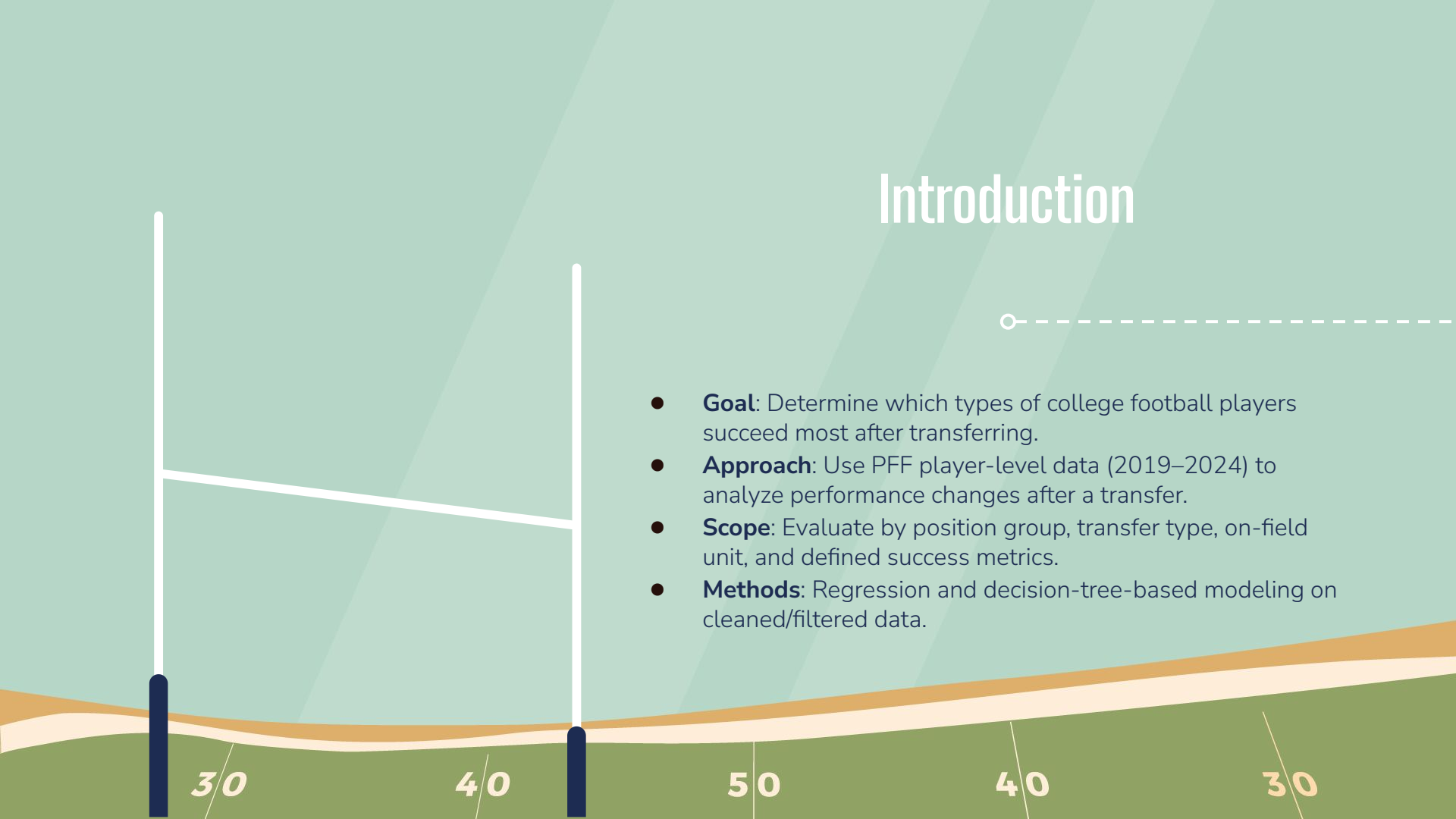


Most Valuable Transfer

Benjamin Harris-Myers



Introduction

- 
- The background features a stylized football field with green grass and orange yard lines. A white line representing the line of scrimmage is positioned at the 40-yard mark. Two dark blue vertical bars are placed on the field, one at the 30-yard mark and another at the 40-yard mark. A dashed white line extends from the 40-yard mark towards the right side of the slide.
- **Goal:** Determine which types of college football players succeed most after transferring.
 - **Approach:** Use PFF player-level data (2019–2024) to analyze performance changes after a transfer.
 - **Scope:** Evaluate by position group, transfer type, on-field unit, and defined success metrics.
 - **Methods:** Regression and decision-tree-based modeling on cleaned/filtered data.

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Data Sources

HOME

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DOWN

01

12:34

TO GO

00

BALL ON

21

VISITOR

15

QTR

04

- **Source:** PFF player stats via API from the years 2019-2024
- **Format:** JSON, tens of thousands of entries per season
- **Tools:** Python (aiohttp, tenacity)

I cleaned the data and filtered for successful upward movement in college football transfers, then narrowed down my search to a few high volume positions...

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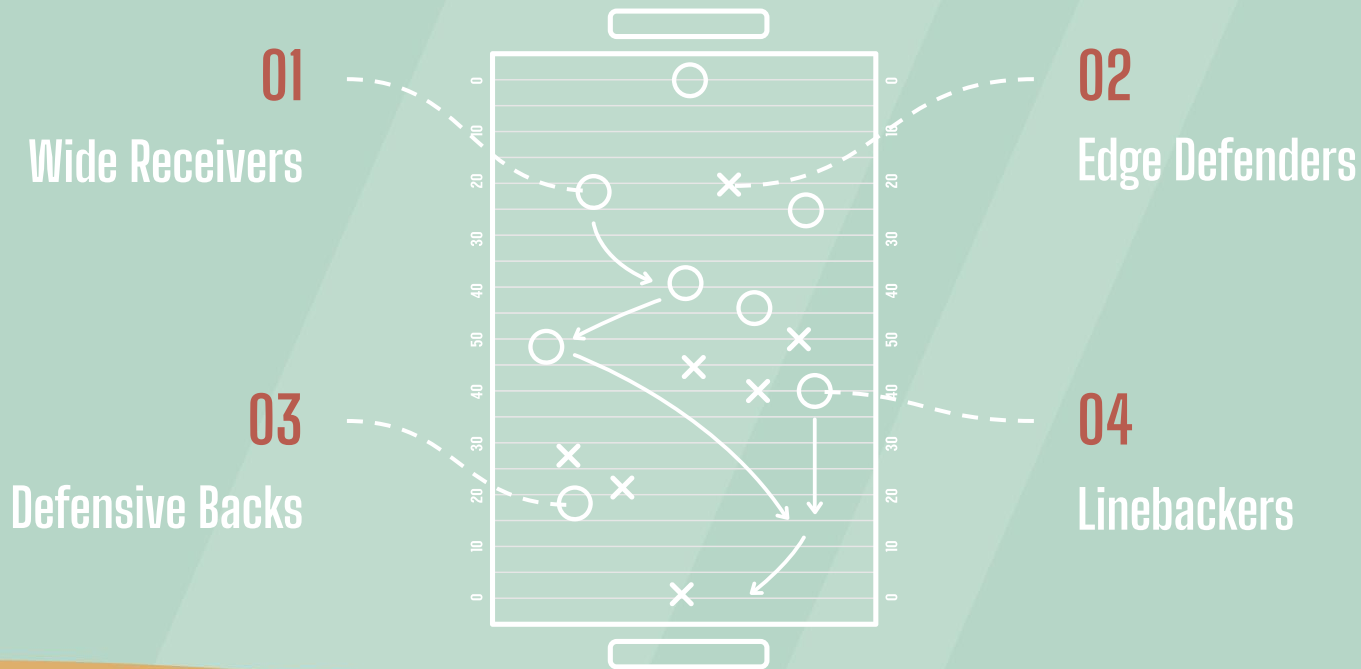
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Findings: Most Successful Positions



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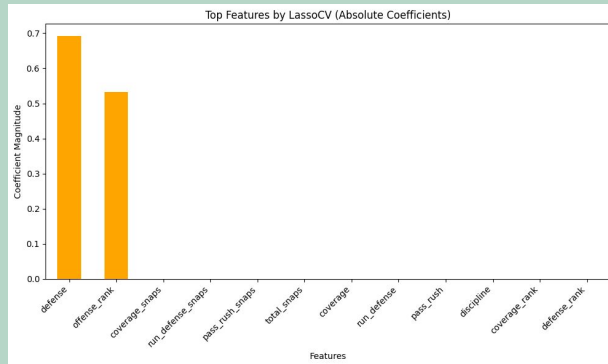
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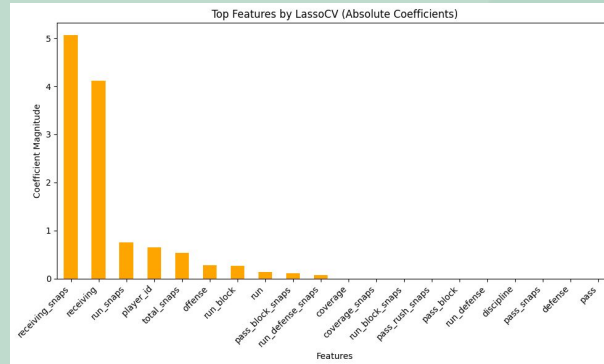
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Findings: Most Significant Stats (LassoCV)

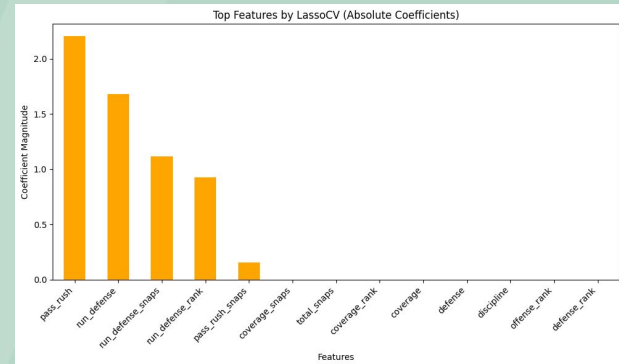
Defensive Backs



Wide Receivers



Linebackers



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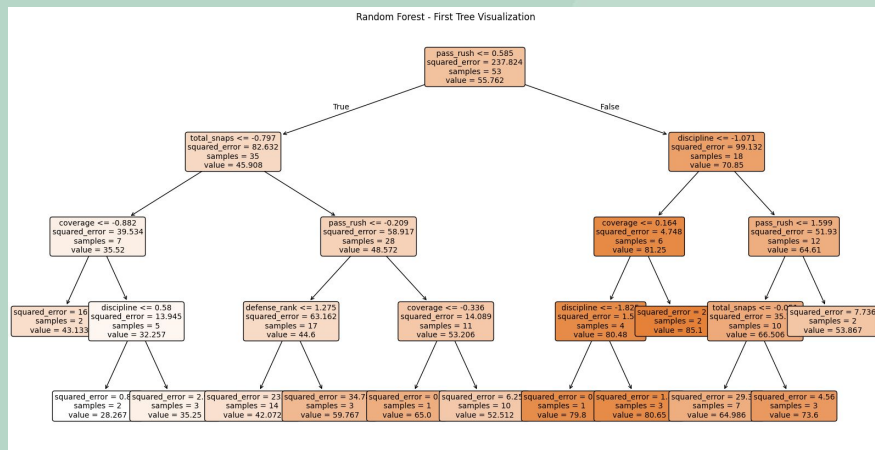
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Findings: Most Significant Stats (Random Forest)

Edge Defenders



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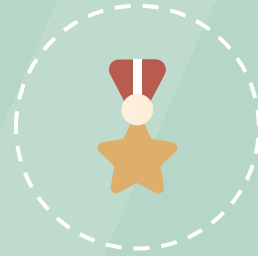
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Challenges

Changing the Scope of the Project

- Initially focused on discipline
- Also had to expand years for more data



Learning the Modeling Techniques

During the results finding process I had to refresh myself on what models to use, how to use them effectively

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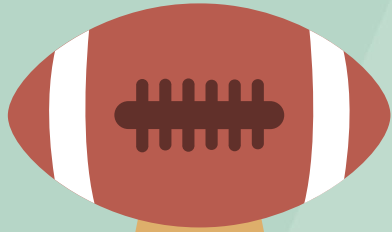
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Questions?

Thank You!



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