

Most Valuable Transfer

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Introduction

- **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.

05

Data Sources

HOME

20

DOWN

01

12:34

TO GO

00

VISITOR

15

BALL ON

21

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...

Findings: Most Successful Positions

01

Wide Receivers

03

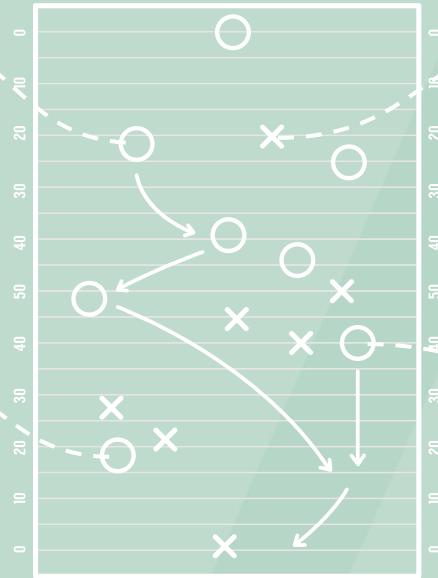
Defensive Backs

02

Edge Defenders

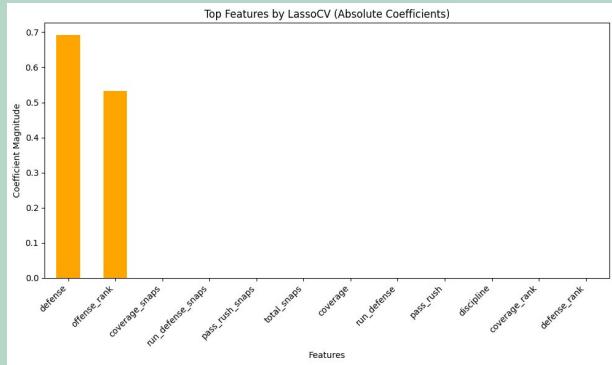
04

Linebackers

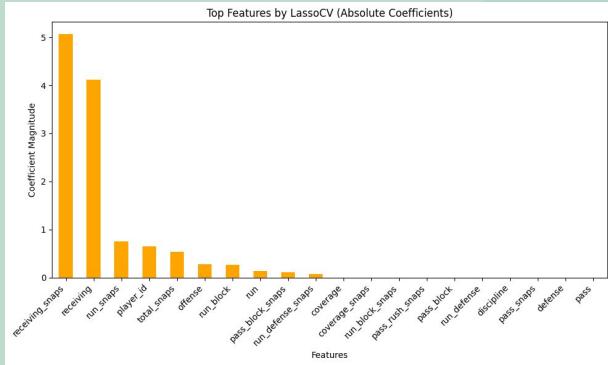


Findings: Most Significant Stats (LassoCV)

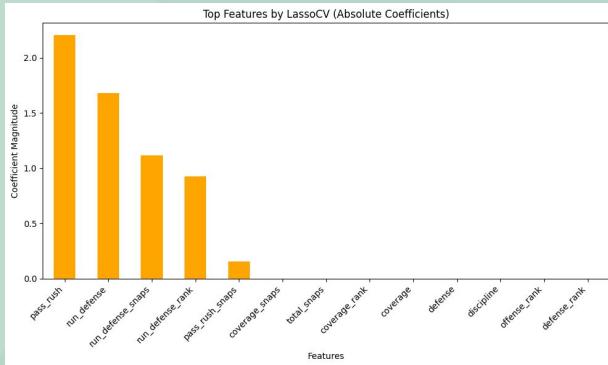
Defensive Backs



Wide Receivers

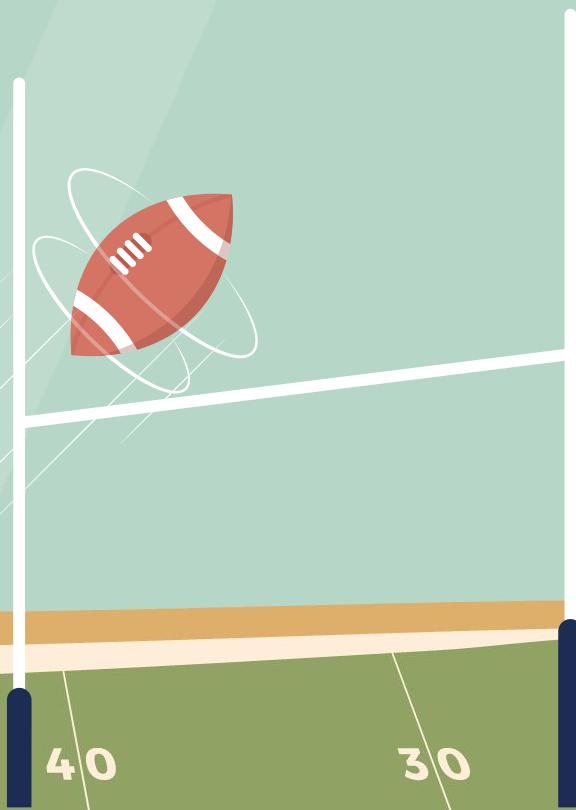
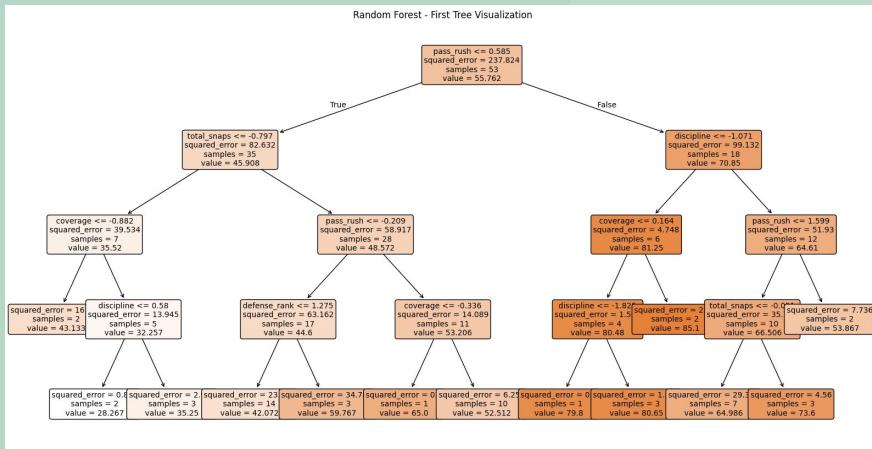


Linebackers



Findings: Most Significant Stats (Random Forest)

Edge Defenders



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

Questions?



Thank You!