

An aerial, slightly angled view of a green football field. White yard lines are clearly visible, with numbers 30, 40, 50, and 60 printed in white on the grass. The field is oriented diagonally from the bottom-left to the top-right of the frame. The text "NFL PLAY PREDICTOR" is superimposed in the center in a bold, black, hand-drawn font.

# NFL PLAY PREDICTOR

BY JON HICKEY

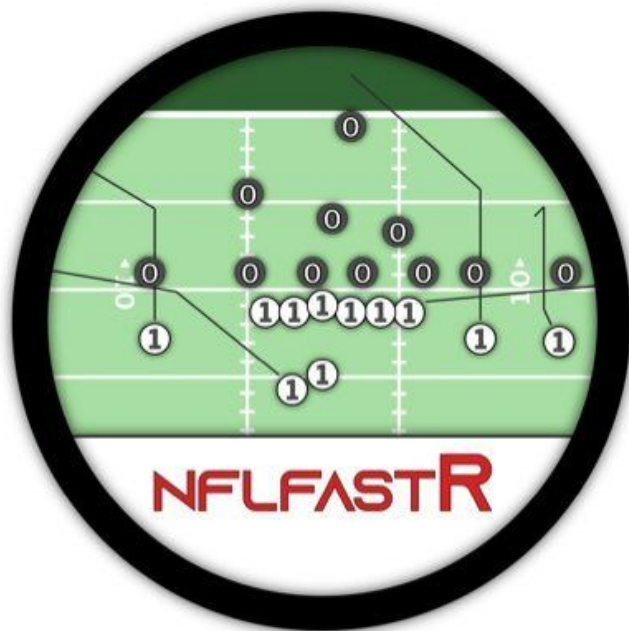
# PROBLEM STATEMENT

- WHAT IS THE PROBLEM?
- HOW WILL MY MODEL BE USED TO SOLVE IT?



# OVERVIEW

- TERMINOLOGY
- DATA SOURCE
- PROJECT GOALS

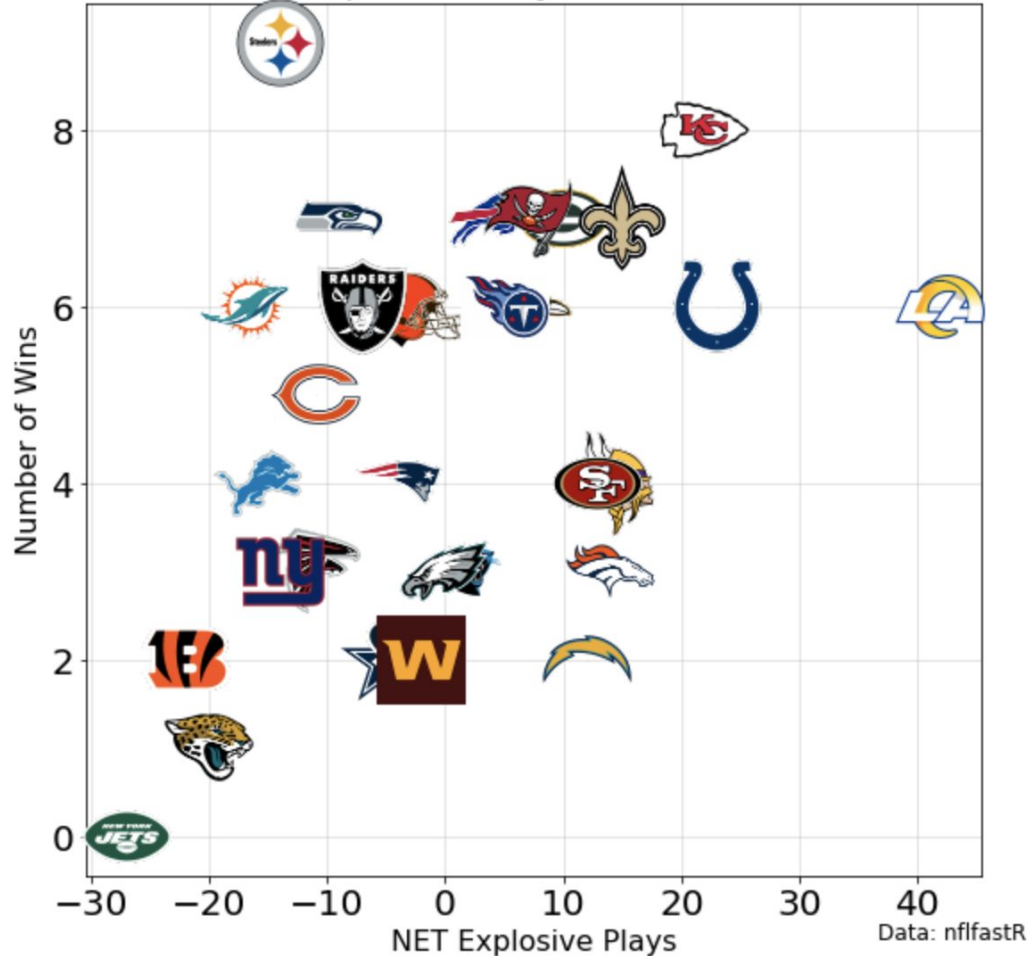


# EXPLOSIVE PLAY ANALYSIS

- WHO IS MIKE EAYRS?
- WHAT WERE HIS FINDINGS?
  - RUSH  $\geq$  12 YARDS
  - PASS  $\geq$  16 YARDS
- HOW IS THIS BENEFICIAL?

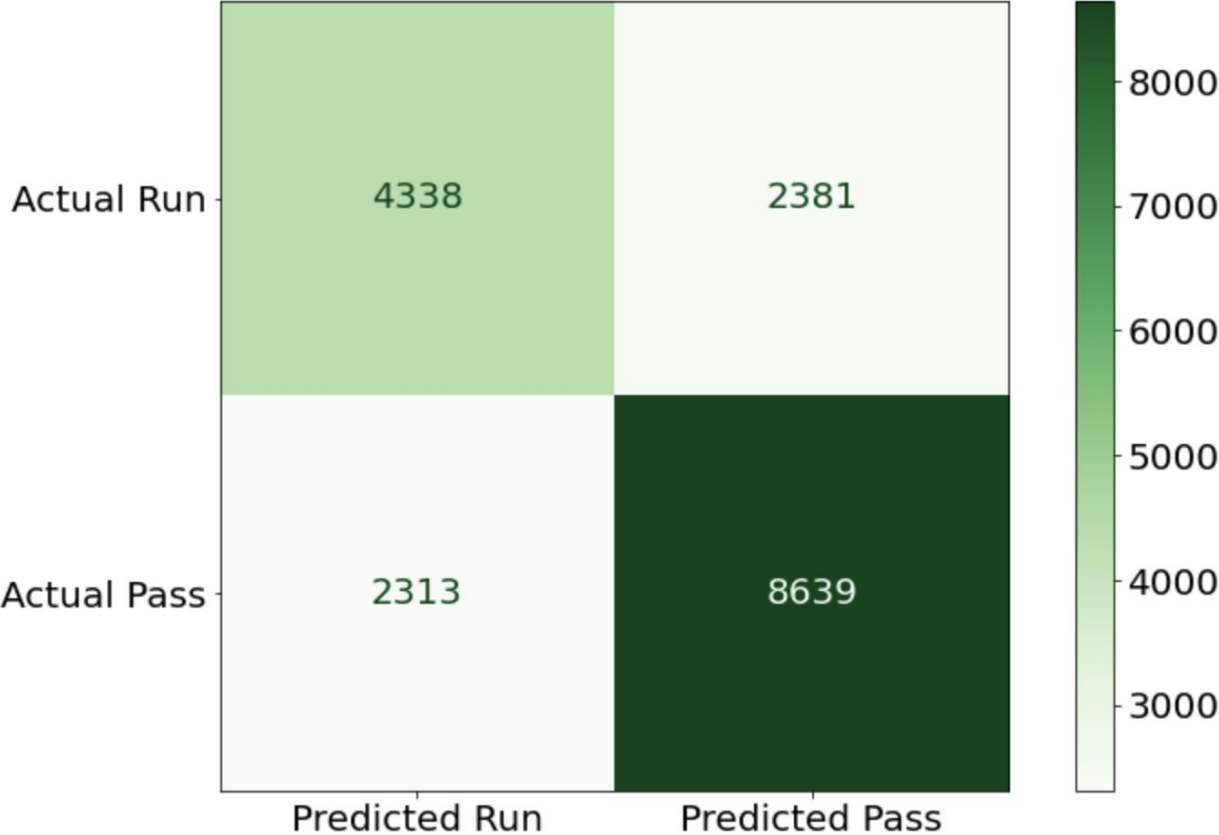


NET Explosive Plays vs Wins - 2020



- **POSITIVE CORRELATION**
- **WHAT DOES THIS MEAN FOR AN OFFENSE?**
- **WHAT DOES THIS MEAN FOR A DEFENSE?**

# EXTRATREES MODEL RESULTS

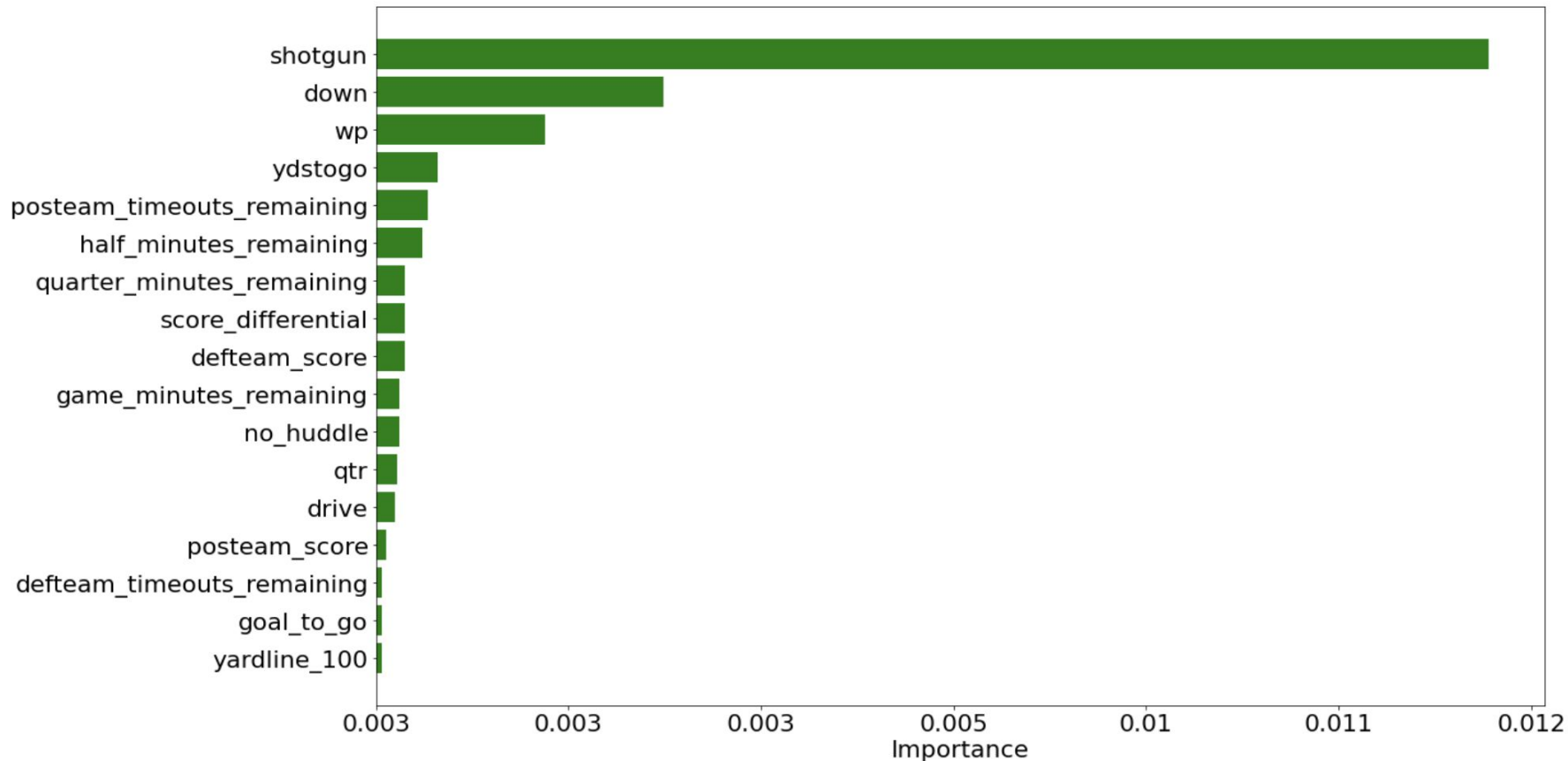


Recall Score
80%

Run	Pass
33,071	55,025

XRP	XPP
2,630	7,012

# EXTRATREES FEATURE ANALYSIS



# NEXT STEPS

- CONTINUE MODEL EXPLORATION
- CONTINUE FEATURE EXPLORATION
- DEPLOY MODEL



# SOURCES

## DATA :

- [HTTPS://GITHUB.COM/GUGASIBB/NFLFASTR-DATA](https://github.com/GUGASIBB/NFLFASTR-DATA)
- [HTTPS://GIST.GITHUB.COM/DERYCK97/DF8D33E9F841568201A2A0D5519AC5E](https://gist.github.com/DERYCK97/DF8D33E9F841568201A2A0D5519AC5E)

## EXPLOSIVE PLAYS :

- [HTTPS://THEPOWERSWEEP.COM/BLOG/HOW-EXPLOSIVE-PLAYS-AFFECT-THE-PACKERS-AARON-RODGERS](https://thepowersweep.com/blog/how-explosive-plays-affect-the-packers-aaron-rogers)

## IMAGES :

- [MIKE EAYRS](#)
- [TITLE SLIDE - FOOTBALL FIELD](#)
- [NFLFASTR](#)

# CONTACT INFORMATION

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