



WHAT IS THE NFL COMBINE?

SKILLS DISPLAY FOR NFL PROSPECTS

The NFL Combine is held annually and tests the athleticism of players who are eligible to enter the NFL.

NFL team scouts use combine metrics as a player evaluation tool in making draft-day decisions.

However, it's **reliability** is still highly debated.

MAKING AN NFL ROSTER

Getting drafted into the NFL has major implications for players that go beyond just making it into the league.

There are **financial** and **contractual** benefits: more guaranteed money and an extra guaranteed year in a player contract.

CAN WE PREDICT WHETHER A PLAYER **GETS DRAFTED?** WHICH DRILLS ARE MOST IMPORTANT?



DATA & METHODOLOGY

SCOPE

The data we used contained individual drill metrics of combine attendees from **1987** to **2017**, giving us coverage of **30 years**

DRILLS

- 40 yard dash
- Bench press
- Vertical jump
- Broad jump
- 3 cone shuttle
- 20-yard shuttle
- 60-yard shuttle

DATA APPROACH

- Chose to narrow focus to linemen (offensive, defensive) due to availability of data and predictive power
- Resulting in 3098 total observations
 - 60-yard shuttle dropped due to too many players not participating

RESULTS



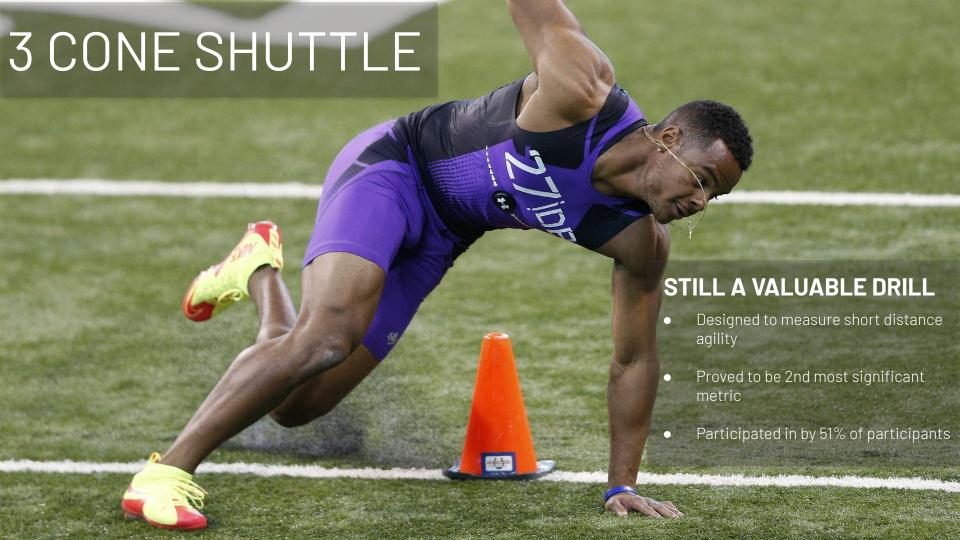


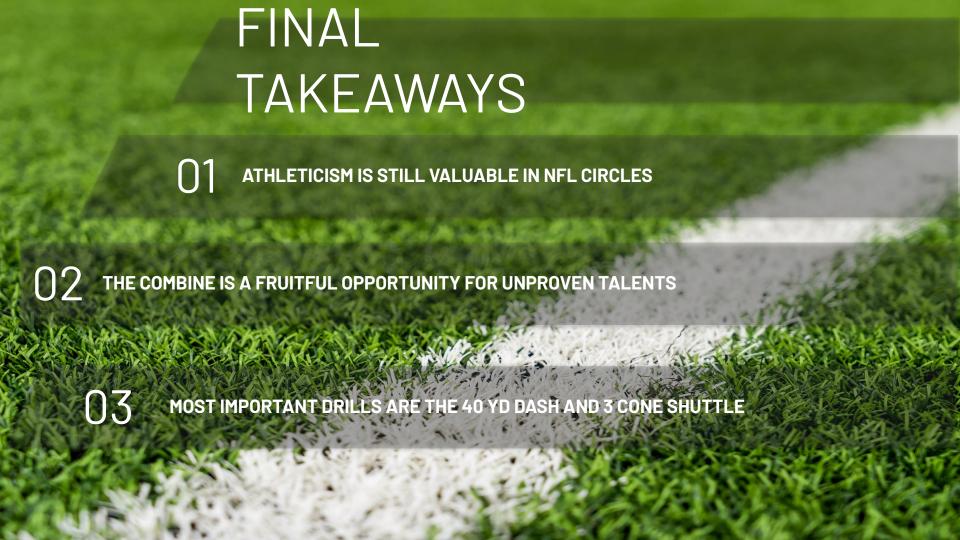
70% ACCURACY

74% PRECISION

Out of all the linemen that were drafted, our model correctly predicted 74% of them.







FUTURE ACTIONS TO TAKE

INCLUDE COLLEGE STATISTICS

College statistics and performance are likely seen as the biggest indicator of NFL performance and achievement. Adding these to our model would improve its predictive power.

THITTE

DETERMINE SPECIFIC DRAFT VALUE PER POSITION

To inform drafting strategy on the team side, it would be helpful to determine the relative value of each position per round. This would help NFL executives determine which positions to target in each round.



ATTEMPT TO PREDICT WHEN A PLAYER GETS DRAFTED

Segmenting further by draft day or round would give us more insight into round-by-round differences between players.

