

HW: NFL in-game win probability

- get NFL play-by-play data from NFLFastR
- Use linear regression to estimate the expected next yardline after punting
- Use logistic regression to estimate field goal success probability
- Use logistic regression to estimate 4th down conversion success probability

-
- fit one decision tree to predict win probability from the relevant variables? What is wrong with the model?
 - fit a Random Forest NFL win probability model. How much better is it than one decision tree? visualize the model outputs by plotting.
 - fit an XGBoost NFL WP model and compare to RF model
 - use Randomized center Bootstrap to create CI for WP estimates!

-
- Go through my code.