

NFL AFC East ReadMe

App Objective: To allow users to observe the effects of various metrics (e.g., yards/play, fumbles, interceptions, penalties, etc.) on the season records (% games won) of the teams in the NFL AFC East.

App layout: The app consists of three panels. The first allows users to visualize two plots and one summary data table. The first plot may be changed by selecting different metrics of interest. The second plot and subsequent data table appear only if the box is checked and displays the 2021 predictions for the teams in the AFC East as well as the regression model summary.

Data analysis: The app uses linear regression models to determine if a metric has a significant effect on the teams' record. In addition, the app uses previous data metrics to train a multiple linear regression model that can predict the teams' record in 2021 based on 2021 metrics (*i.e.*, the test metrics).