## NFL Big Data Bowl

\$75,000 Prize Money

How many yards will an NFL player gain after receiving a handoff?

The National Football League · 892 teams · a month to go (a month to go until merger deadline)

Submissions will be evaluated on the Continuous Ranked Probability Score (CRPS). For each PlayId, you submissions will be evaluated in the continuous animed robusting Societies (NFS). For each F1921, you must predict a cumulative probability distribution for the yardage gained or lost. In other words, each column you predict indicates the probability that the team gains <= that many yards on the play. The CRPS

Code Requirements

 $C = rac{1}{199N} \sum_{m=1}^{N} \sum_{n=-99}^{99} (P(y \leq n) - H(n - Y_m))^2,$ 

where P is the predicted distribution, N is the number of plays in the test set, Y is the actual yardage and H(x) is the Heaviside step function (H(x)=1 for  $x\geq 0$  and zero otherwise).

The submission will not score if any of the predicted values has

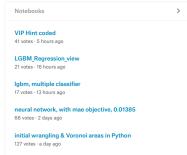
$$P(y \le k) > P(y \le k+1)$$

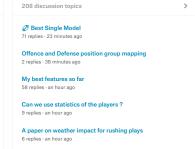
for any k (i.e. the CDF must be non-decreasing).

## Submission File

For each PlayId , you must predict 199 values that represent its cumulative distribution from -99 to 99 yards gained. The file must have a header and contain all 199 values in the following format:

PlayId,Yards-99,Yards-98...Yards98,Yards99 20190905000050,0.0,0.0, ...,1.0,1.0 20190905000195,0.0,0.0, ...,1.0,1.0 etc...







892 980 6,454 Teams Competitors Entries

Points This competition awards standard ranking points  ${\sf Tiers} \ \ \textbf{This competition counts towards tiers}$ 

sports american football crps extra small