FLEX Project Guidelines

Git hub repository has been created and named FLEX, can be found by searching

terror12 / FLEX

Mission Statement: Build a predictive engine that will output projected best lineups for weekly entries into FanDuel.

Methodology: FanDuel creates a price value for each player. We will be judging a players value by 2-1/2 times their price. This value will be compared with numerous different player ranking platforms (yahoo, espn, nfl.com etc.) The standard deviation will be found between every possibility of each platform, I will most likely be looking at the lowest positive standard deviation.

-The idea will be to use the projections of these experts to come up with a system to predict the best starting lineup using 100% of the salary given.

The players with the highest positive standard deviation will be considered a must start. There will be a program in place that will produce starters by using the players considered must start while using all of the salary given.

Data:

-FanDuel:

Rotoguru1.com

- Holds archives of all past FanDuel player salaries. Dating back to 2011.

- This will be used to try and identify patterns with our standard deviation model.

-Google Sheet

- Google sheets will be used to pull data from Rotoguru1.com to start building our database.

- We will set up Google sheets to automatically update our database as new information comes out.

Coding:

R:

-Will be using R to perform statistical analysis, and to call in all data from google sheets.

TO DO LIST:

* Collect all data from Rotoguru1.com and enter into google sheets
* Find data archives for all past predictions of yahoo, espn, nfl.com etc.
* Create R code to call in data from google sheets and perform data analytics on it
  + Use capstone project as baseline for R code.
    - Insert all data
    - Group all data into data groups
    - Find standard deviation for all players based on their price value compared with other engines predictions
    - Build lineup
      * Need to rank players from smallest positive STD to largest
      * Then need to come up with formula to enter in the players starting from top to bottom using all of the salary given.
    - Analyze all previous perfect lineups and find what the STD of the projections is
      * Should be used to analyze which platforms prediction seem to be more succesful
    - Create format of 1QB, 2RB, 3WR, 1TE, 1K, 1DEF as template for code to enter players into.
* Find the standard deviation statistics based on all past perfect lineups
* Create visual model to show how engines will be built
  + One model will be Fanduel value compared with yahoo player rankings to find the players with the smallest positive standard deviation
  + Next model will be Fanduel value compared with espn player rankings to find the players with the smallest positive standard deviation
  + Another model will be all three of the combined to find that standard deviation and build a line up based on all threes projections.