Angel Reese Extra Credit

Coco Donovan

2023-02-09

Introduction:

Angel Reese was a highly regarded recruit coming out of high school, but her first year of college was cut short by injury. In Reese's second year, she averaged a double-double in one of the premier conferences in the NCAA. Reese's decided that she wanted a change of scenery for the rest of her college career, so she transferred to LSU. At LSU, had Reese matched her year-two production, she would be a lock for All-American, but in true Angel Reese style, she improved yet again. Reese has had a double-double each game this season (in points and total rebounds), which has allowed her to set an SEC record once held by WNBA great Slyvia Fowles. Reese has become a leading contender for National Player of the Year. And so, I chose to make Reese the focal subject of this extra credit assignment.

Necessary Packages

```
library(dplyr)
##
## Attaching package: 'dplyr'
  The following objects are masked from 'package:stats':
##
      filter, lag
## The following objects are masked from 'package:base':
##
##
      intersect, setdiff, setequal, union
library(rvest)
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.2
## v ggplot2 3.4.0
                     v purrr
                              1.0.1
## v tibble 3.1.8
                     v stringr 1.5.0
## v tidyr
                     v forcats 0.5.2
           1.3.0
## v readr
           2.1.3
## -- Conflicts -----
                                   ----- tidyverse conflicts() --
## x dplyr::filter()
                          masks stats::filter()
## x readr::guess_encoding() masks rvest::guess_encoding()
                          masks stats::lag()
## x dplyr::lag()
```

Downloading the data

```
angel_url <- 'https://herhoopstats.com/stats/ncaa/player/2023/natl/angel-reese-stats-11eb2f34-d79a-34a4
angel <- angel_url %>%
    read_html() %>%
    html_nodes(xpath = '//*[@id="schedule"]/div/div/div/div[1]/div/table') %>%
    html_table(header = TRUE)
angel <- data.frame(angel)
game_id <- c(1:nrow(angel))
angel$game_id <- game_id
head(angel)</pre>
```

```
Date Tm Loc
                                    Opp gs
                                              MP PTS FGM FGA
                                                              FG. X2PM X2PA
## 1 2022-11-07 LSU
                             Bellarmine 1 23:42 31 11
                                                         14 78.6%
                                                                         14
## 2 2022-11-11 LSU
                       Mississippi Val.
                                        1 23:08
                                                 16
                                                      5
                                                         11 45.5%
                                                                         10
## 3 2022-11-13 LSU
                                                                         12
                          Western Caro.
                                         1 21:21
                                                 17
                                                         12 66.7%
                                                      8
## 4 2022-11-16 LSU
                      Houston Christian 1 32:33
                                                 29
                                                     13
                                                         23 56.5%
                                                                    13
                                                                         23
## 5 2022-11-20 LSU
                       Northwestern St. 1 28:30 23
                                                    10
                                                         15 66.7%
                                                                    10
                                                                         15
## 6 2022-11-24 LSU
                   N
                           George Mason 1 36:30
                                                 21
                                                      7
                                                         12 58.3%
                                                                         11
     X2P. X3PM X3PA X3P. FTM FTA
##
                                  FT. ORB DRB TRB AST TOV STL BLK PF game_id
## 1 78.6%
             0
                 0
                          9
                            15 60.0%
                                        5
                                            8
                                              13
                                                    2
                                                       0
                                                           4
                                                               2
                                                                  2
                                                                          1
                  1 0.0%
                                                       2
                                                                          2
## 2 50.0%
                          6
                             7 85.7%
                                        5 10 15
                                                    5
                                                               2 1
## 3 66.7%
            0
                  0
                          1
                              3 33.3%
                                       5 10 15
                                                   2
                                                                          3
                      --
## 4 56.5%
            0
                  0
                          3
                              4 75.0%
                                       7
                                           9
                                              16
                                                   1
                                                       2
                                                               2 1
                                                                          4
## 5 66.7%
           0
                 0
                          3
                              5 60.0% 10
                                          9 19
                                                   4
                                                      1
                                                              2 0
                                                                          5
## 6 63.6%
                  1 0.0%
                          7
                              9 77.8%
                                        8
                                          11 19
                                                   3
                                                                          6
```

Filtering to Game Date, Total Rebounds

```
baskets_and_boards <- angel %>%
select('game_id', 'Date', 'TRB', 'PTS')
```

Adding the game by game average for Points and Total Rebounds

```
## game_id Date TRB PTS game_by_game_pts_avg game_by_game_trb_avg
## 1 1 2022-11-07 13 31 31.0 13.0
## 2 2 2022-11-11 15 16 23.5 14.0
## 3 3 2022-11-13 15 17 21.3 14.3
```

```
## 4
           4 2022-11-16 16
                                                 23.2
                                                                       14.8
## 5
           5 2022-11-20
                         19
                             23
                                                 23.2
                                                                       15.6
## 6
           6 2022-11-24
                         19
                             21
                                                 22.8
                                                                       16.2
```

Adding the 6 Game Mean for Points and Total Rebounds

```
##
     game_id
                   Date TRB PTS game_by_game_pts_avg game_by_game_trb_avg
## 1
                                                  31.0
           1 2022-11-07
                              31
                                                                        13.0
## 2
           2 2022-11-11
                             16
                                                  23.5
                                                                        14.0
## 3
           3 2022-11-13
                         15
                             17
                                                  21.3
                                                                        14.3
## 4
           4 2022-11-16 16
                              29
                                                  23.2
                                                                        14.8
## 5
           5 2022-11-20 19
                              23
                                                  23.2
                                                                        15.6
## 6
           6 2022-11-24 19
                                                  22.8
                                                                        16.2
     six_game_pts_avg six_game_trb_avg
##
## 1
                   NA
                                     NA
## 2
                   NA
                                     NA
## 3
                   NA
                                     NA
## 4
                   NA
                                     NA
## 5
                   NA
                                     NA
## 6
                 22.8
                                   16.2
```

Conclusion:

As you can see, Reese's numbers are consistently impressive, which you can see on a game-by-game basis in average and individual score form. I have also provided an average for both total rebounds and points on a six-game basis. These numbers are something to behold, which gives you all the more reason to tune in!