

# 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 Sylvia 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   1.3.0    v forcats 0.5.2
## v readr   2.1.3

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter()      masks stats::filter()
## x readr::guess_encoding() masks rvest::guess_encoding()
## x dplyr::lag()         masks stats::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
```

## 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

```
baskets_and_boards <- baskets_and_boards %>%
  mutate(game_pts_avg = round(cummean(PTS),1),
         game_trb_avg = round(cummean(TRB),1))

knitr::kable(head(baskets_and_boards))
```

game_id	Date	TRB	PTS	game_pts_avg	game_trb_avg
1	2022-11-07	13	31	31.0	13.0
2	2022-11-11	15	16	23.5	14.0
3	2022-11-13	15	17	21.3	14.3
4	2022-11-16	16	29	23.2	14.8
5	2022-11-20	19	23	23.2	15.6
6	2022-11-24	19	21	22.8	16.2

## Adding the 6 Game Mean for Points and Total Rebounds

```
six_game_mean <- function(column) {
  if_else(baskets_and_boards$game_id %% 6 == 0, cummean(column), NULL)
}

baskets_and_boards <- baskets_and_boards %>%
  mutate(six_game_pts_avg = round(six_game_mean(PTS),1),
         six_game_trb_avg = round(six_game_mean(TRB),1))

knitr::kable(head(baskets_and_boards))
```

game_id	Date	TRB	PTS	game_pts_avg	game_trb_avg	six_game_pts_avg	six_game_trb_avg
1	2022-11-07	13	31	31.0	13.0	NA	NA
2	2022-11-11	15	16	23.5	14.0	NA	NA
3	2022-11-13	15	17	21.3	14.3	NA	NA
4	2022-11-16	16	29	23.2	14.8	NA	NA
5	2022-11-20	19	23	23.2	15.6	NA	NA
6	2022-11-24	19	21	22.8	16.2	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!