

Dados Regular

2024-05-07

```
##### Pacotes que irei utilizar #####
```

```
library(ggplot2)
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v lubridate  1.9.3      v tibble    3.2.1
## v purrr      1.0.2      v tidyr     1.3.1
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
```

```
## x dplyr::lag()     masks stats::lag()
```

```
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(patchwork)
```

```
library(ggplot2)
```

```
library(dplyr)
```

```
library(betareg)
```

```
library(gamlss)
```

```
## Loading required package: splines
```

```
## Loading required package: gamlss.data
```

```
##
```

```
## Attaching package: 'gamlss.data'
```

```
##
```

```
## The following object is masked from 'package:datasets':
```

```
##
```

```
##      sleep
```

```
##
```

```
## Loading required package: gamlss.dist
```

```
## Loading required package: nlme
```

```
##
```

```
## Attaching package: 'nlme'
```

```
##
```

```
## The following object is masked from 'package:dplyr':
```

```
##
```

```
##      collapse
```

```
##
```

```
## Loading required package: parallel
```

```
## ***** GAMLSS Version 5.4-22 *****
```

```
## For more on GAMLSS look at https://www.gamlss.com/
```

```
## Type gamlssNews() to see new features/changes/bug fixes.
```

```
library(car)
```

```
## Loading required package: carData
```

```
##
```

```

## Attaching package: 'car'
##
## The following object is masked from 'package:dplyr':
##
##     recode
##
## The following object is masked from 'package:purrr':
##
##     some
library(lmtest)

## Loading required package: zoo
##
## Attaching package: 'zoo'
##
## The following objects are masked from 'package:base':
##
##     as.Date, as.Date.numeric
##### Leitura dos dados #####
dados_r <- readxl::read_xlsx("Temporada_NBA.xlsx", sheet = "Regular") #Temporada regular

dados_regular <- dados_r %>% mutate(Posicao = as.integer(Posicao)) %>%
  mutate(Team = as.factor(Team)) %>%
  mutate(W = as.integer(W)) %>%
  mutate(L = as.integer(L)) %>%
  mutate(WINP = as.double(WINP)) %>%
  mutate(MIN = as.double(MIN)) %>%
  mutate(PTS = as.double(PTS)) %>%
  mutate(FGM = as.double(FGM)) %>%
  mutate(FGA = as.double(FGA)) %>%
  mutate(FGP = as.double(FGP)) %>%
  mutate(`3PM` = as.double(`3PM`)) %>%
  mutate(`3PA` = as.double(`3PA`)) %>%
  mutate(`3PP` = as.double(`3PP`)) %>%
  mutate(FTM = as.double(FTM)) %>%
  mutate(FTA = as.double(FTA)) %>%
  mutate(FTP = as.double(FTP)) %>%
  mutate(OREB = as.double(OREB)) %>%
  mutate(DREB = as.double(DREB)) %>%
  mutate(REB = as.double(REB)) %>%
  mutate(AST = as.double(AST)) %>%
  mutate(TOV = as.double(TOV)) %>%
  mutate(STL = as.double(STL)) %>%
  mutate(BLK = as.double(BLK)) %>%
  mutate(BLKA = as.double(BLKA)) %>%
  mutate(PF = as.double(PF)) %>%
  mutate(PFD = as.double(PFD)) %>%
  mutate(PlusMinus = as.double(PlusMinus)) %>%
  mutate(Temporada = as.character(Temporada)) %>%
  mutate(Conferencia = as.character(Conferencia)) %>%
  mutate(Numero_temporada = as.factor(Numero_temporada))

##### Dados Regressão #####

```

```
dados_regressao <- dados_regular %>% dplyr::select(-c(Posicao, GP, W, L, MIN, Temporada, Conferencia))
dados_regressao
```

```
## # A tibble: 450 x 24
##   TEAM   WINP   PTS   FGM   FGA   FGP   `3PM`   `3PA`   `3PP`   FTM   FTA   FTP   OREB
##   <fct> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
## 1 Milw~ 0.707 117.  42.7  90.4  47.3  14.8  40.3  36.8  16.6  22.4  74.3  11.1
## 2 Bost~ 0.695 118.  42.2  88.8  47.5  16    42.6  37.7  17.5  21.6  81.2  9.7
## 3 Phil~ 0.659 115.  40.8  83.8  48.7  12.6  32.6  38.7  21    25.1  83.5  8.7
## 4 Denv~ 0.646 116.  43.6  86.4  50.4  11.8  31.2  37.9  16.8  22.4  75.1  10.1
## 5 Clev~ 0.622 112.  41.6  85.2  48.8  11.6  31.6  36.7  17.5  22.5  78    9.7
## 6 Memp~ 0.622 117.  43.7  92.1  47.5  12    34.2  35.1  17.5  23.8  73.3  12
## 7 Sacr~ 0.585 121.  43.6  88.2  49.4  13.8  37.3  36.9  19.8  25.1  79    9.5
## 8 New ~ 0.573 116  42    89.4  47    12.6  35.7  35.4  19.4  25.5  76.1  12.6
## 9 Broo~ 0.549 113.  41.5  85.1  48.7  12.8  33.8  37.8  17.7  22.1  80    8.2
## 10 Phoe~ 0.549 114.  42.1  90.1  46.7  12.2  32.6  37.4  17.2  21.7  79.3  11.8
## # i 440 more rows
## # i 11 more variables: DREB <dbl>, REB <dbl>, AST <dbl>, TOV <dbl>, STL <dbl>,
## #   BLK <dbl>, BLKA <dbl>, PF <dbl>, PFD <dbl>, PlusMinus <dbl>,
## #   Numero_temporada <fct>
```