OKC Project

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R Markdown

```
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("ggplot2")
library("broom")
library("knitr")
library("cowplot")
##
## Attaching package: 'cowplot'
## The following object is masked from 'package:ggplot2':
##
##
       ggsave
library("readr")
library("arm")
## Loading required package: MASS
##
## Attaching package: 'MASS'
## The following object is masked from 'package:dplyr':
##
##
       select
## Loading required package: Matrix
## Loading required package: lme4
##
## arm (Version 1.10-1, built: 2018-4-12)
## Working directory is /cloud/project/STA 210/OKC
library("olsrr")
## Attaching package: 'olsrr'
```

```
## The following object is masked from 'package:MASS':
##
##
## The following object is masked from 'package:datasets':
##
##
library("caret")
## Loading required package: lattice
all nba <- read.csv("all-nba-okc-dataset.csv")
glimpse(all_nba)
## Observations: 13,760
## Variables: 101
## $ ID
                          <int> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 1...
## $ Player
                          <fct> Allen Leavell, Alvin Robertson, Andre Tu...
## $ Tm
                          <fct> HOU, SAS, MIL, SAS, TOT, MIA, SEA, UTA, ...
                          <int> 1989, 1989, 1989, 1989, 1989, 1989, 1989...
## $ Year.End
## $ Rk
                          <int> 179, 257, 316, 29, 157, 299, 148, 172, 1...
## $ Pos
                          <fct> SG, SG, PG, SG, SG, PG, PG, SG, SG, PG, ...
                          <fct> SG, SG, PG, SG, SG, PG, PG, SG, SG, PG, ...
## $ Pos_Rev
## $ All.NBA.Team
## $ Age
                          <int> 31, 26, 24, 25, 26, 23, 23, 24, 28, 33, ...
## $ G
                          <int> 55, 65, 4, 18, 33, 21, 43, 19, 46, 78, 8...
                          <int> 3, 65, 0, 5, 0, 7, 0, 0, 9, 4, 54, 2, 73...
## $ GS
## $ MP_Total
                          <int> 627, 2287, 13, 438, 196, 368, 291, 176, ...
## $ FG Total
                          <int> 65, 465, 3, 72, 29, 60, 29, 12, 140, 183...
## $ FGA_Total
                          <int> 188, 962, 6, 144, 79, 151, 83, 33, 300, ...
## $ FG._Total
                          <dbl> 0.346, 0.483, 0.500, 0.500, 0.367, 0.397...
## $ X3P_Total
                          <int> 5, 9, 0, 1, 4, 0, 1, 0, 19, 32, 0, 5, 77...
## $ X3PA_Total
                          <int> 41, 45, 0, 5, 16, 2, 9, 1, 54, 102, 13, ...
## $ X3P._Total
                          <dbl> 0.122, 0.200, NA, 0.200, 0.250, 0.000, 0...
## $ X2P_Total
                          <int> 60, 456, 3, 71, 25, 60, 28, 12, 121, 151...
## $ X2PA_Total
                          <int> 147, 917, 6, 139, 63, 149, 74, 32, 246, ...
## $ X2P. Total
                          <dbl> 0.408, 0.497, 0.500, 0.511, 0.397, 0.403...
## $ eFG._Total
                          <dbl> 0.359, 0.488, 0.500, 0.503, 0.392, 0.397...
                          <int> 44, 183, 0, 10, 14, 24, 9, 6, 42, 99, 10...
## $ FT_Total
## $ FTA_Total
                          <int> 60, 253, 0, 15, 16, 32, 16, 11, 75, 123,...
## $ FT. Total
                          <dbl> 0.733, 0.723, NA, 0.667, 0.875, 0.750, 0...
                          <int> 13, 157, 0, 25, 14, 11, 11, 4, 29, 14, 1...
## $ ORB_Total
## $ DRB_Total
                          <int> 40, 227, 3, 31, 14, 23, 13, 7, 99, 94, 2...
## $ TRB Total
                          <int> 53, 384, 3, 56, 28, 34, 24, 11, 128, 108...
## $ AST_Total
                          <int> 127, 393, 0, 29, 17, 43, 73, 20, 50, 242...
                          <int> 25, 197, 2, 18, 11, 22, 21, 9, 37, 48, 7...
## $ STL Total
## $ BLK_Total
                          <int> 5, 36, 0, 4, 3, 5, 3, 0, 6, 18, 27, 1, 2...
## $ TOV Total
                          <int> 62, 231, 4, 22, 5, 20, 18, 13, 43, 92, 1...
## $ PF_Total
                          <int> 61, 259, 2, 43, 20, 37, 34, 22, 105, 151...
## $ PTS_Total
                          <int> 179, 1122, 6, 155, 76, 144, 68, 30, 341,...
## $ PER_ADV
                          <dbl> 7.7, 17.2, 3.6, 10.6, 13.4, 11.1, 10.8, ...
## $ TS. ADV
                          <dbl> 0.417, 0.523, 0.500, 0.515, 0.442, 0.436...
## $ X3PAr_ADV
                          <dbl> 0.218, 0.047, 0.000, 0.035, 0.203, 0.013...
## $ FTr_ADV
                          <dbl> 0.319, 0.263, 0.000, 0.104, 0.203, 0.212...
```

```
## $ ORB. ADV
                           <dbl> 2.3, 7.2, 0.0, 6.0, 8.1, 3.2, 4.1, 2.7, ...
                           <dbl> 6.8, 11.4, 27.1, 8.1, 7.8, 7.3, 5.2, 4.1...
## $ DRB._ADV
                           <dbl> 4.6, 9.2, 13.3, 7.0, 8.0, 5.2, 4.6, 3.5,...
## $ TRB. ADV
## $ AST._ADV
                           <dbl> 26.8, 25.5, 0.0, 9.3, 13.0, 18.0, 31.3, ...
## $ STL. ADV
                           <dbl> 1.9, 4.0, 7.5, 1.9, 2.8, 2.9, 3.5, 2.5, ...
                           <dbl> 0.5, 0.9, 0.0, 0.5, 0.9, 0.8, 0.6, 0.0, ...
## $ BLK. ADV
## $ TOV. ADV
                           <dbl> 22.4, 17.7, 40.0, 12.7, 5.5, 10.8, 16.7,...
## $ USG. ADV
                           <dbl> 17.7, 22.2, 31.9, 15.3, 20.1, 20.4, 14.8...
## $ OWS_ADV
                           <dbl> 0.0, 0.5, 1.1, -0.4, 0.4, 0.1, 0.5, 1.9,...
## $ DWS_ADV
                           <dbl> 1.2, 0.4, 0.8, 1.4, 0.4, 0.1, 1.0, 0.7, ...
## $ WS_ADV
                           <dbl> 1.2, 0.9, 1.9, 1.0, 0.8, 0.1, 1.4, 2.6, ...
## $ WS.48_ADV
                           <dbl> 0.065, 0.063, 0.084, 0.049, 0.062, 0.027...
## $ OBPM_ADV
                           <dbl> -2.3, -0.9, 0.1, -3.2, -1.6, -2.1, -2.5,...
## $ DBPM_ADV
                           <dbl> 1.8, -2.0, -2.4, 0.2, -0.9, -4.4, 0.7, N...
                           <dbl> -0.6, -2.8, -2.3, -3.0, -2.5, -6.5, -1.8...
## $ BPM_ADV
## $ VORP_ADV
                           <dbl> 0.3, -0.1, -0.1, -0.3, -0.1, -0.2, 0.1, ...
## $ FG_Per100
                           <dbl> 4.9, 9.4, 11.2, 7.6, 7.4, 7.9, 4.8, 3.3,...
## $ FGA Per100
                           <dbl> 14.1, 19.4, 22.5, 15.2, 20.1, 19.9, 13.7...
## $ FG._Per100
                           <dbl> 0.346, 0.483, 0.500, 0.500, 0.367, 0.397...
## $ X3P Per100
                           <dbl> 0.4, 0.2, 0.0, 0.1, 1.0, 0.0, 0.2, 0.0, ...
## $ X3PA_Per100
                           <dbl> 3.1, 0.9, 0.0, 0.5, 4.1, 0.3, 1.5, 0.3, ...
## $ X3P. Per100
                           <dbl> 0.122, 0.200, NA, 0.200, 0.250, 0.000, 0...
## $ X2P_Per100
                           <dbl> 4.5, 9.2, 11.2, 7.5, 6.4, 7.9, 4.6, 3.3,...
## $ X2PA Per100
                           <dbl> 11.1, 18.5, 22.5, 14.6, 16.0, 19.6, 12.2...
## $ X2P. Per100
                           <dbl> 0.408, 0.497, 0.500, 0.511, 0.397, 0.403...
## $ FT_Per100
                           <dbl> 3.3, 3.7, 0.0, 1.1, 3.6, 3.2, 1.5, 1.7, ...
## $ FTA_Per100
                           <dbl> 4.5, 5.1, 0.0, 1.6, 4.1, 4.2, 2.6, 3.1, ...
## $ FT._Per100
                           <dbl> 0.733, 0.723, NA, 0.667, 0.875, 0.750, 0...
## $ ORB_Per100
                           <dbl> 1.0, 3.2, 0.0, 2.6, 3.6, 1.4, 1.8, 1.1, ...
## $ DRB_Per100
                           <dbl> 3.0, 4.6, 11.2, 3.3, 3.6, 3.0, 2.1, 1.9,...
## $ TRB_Per100
                           <dbl> 4.0, 7.7, 11.2, 5.9, 7.1, 4.5, 4.0, 3.1,...
## $ AST_Per100
                           <dbl> 9.6, 7.9, 0.0, 3.1, 4.3, 5.7, 12.0, 5.6,...
## $ STL_Per100
                           <dbl> 1.9, 4.0, 7.5, 1.9, 2.8, 2.9, 3.5, 2.5, ...
## $ BLK_Per100
                           <dbl> 0.4, 0.7, 0.0, 0.4, 0.8, 0.7, 0.5, 0.0, ...
## $ TOV Per100
                           <dbl> 4.7, 4.7, 15.0, 2.3, 1.3, 2.6, 3.0, 3.6,...
## $ PF_Per100
                           <dbl> 4.6, 5.2, 7.5, 4.5, 5.1, 4.9, 5.6, 6.1, ...
## $ PTS Per100
                           <dbl> 13.5, 22.6, 22.5, 16.3, 19.3, 19.0, 11.2...
                           <int> 123, 107, 89, 96, 110, 105, 80, 101, 110...
## $ ORtg_Per100
                           <int> 104, 106, 106, 91, 109, 104, 115, 103, 1...
## $ DRtg_Per100
## $ MP_PerGame
                           <dbl> 11.4, 35.2, 3.3, 24.3, 5.9, 17.5, 6.8, 9...
## $ FG PerGame
                           <dbl> 1.2, 7.2, 0.8, 4.0, 0.9, 2.9, 0.7, 0.6, ...
                           <dbl> 3.4, 14.8, 1.5, 8.0, 2.4, 7.2, 1.9, 1.7,...
## $ FGA_PerGame
## $ FG._PerGame
                           <dbl> 0.346, 0.483, 0.500, 0.500, 0.367, 0.397...
## $ X3P_PerGame
                           ## $ X3PA_PerGame
                           <dbl> 0.7, 0.7, 0.0, 0.3, 0.5, 0.1, 0.2, 0.1, ...
## $ X3P._PerGame
                           <dbl> 0.122, 0.200, NA, 0.200, 0.250, 0.000, 0...
## $ X2P_PerGame
                           <dbl> 1.1, 7.0, 0.8, 3.9, 0.8, 2.9, 0.7, 0.6, ...
## $ X2PA_PerGame
                           <dbl> 2.7, 14.1, 1.5, 7.7, 1.9, 7.1, 1.7, 1.7,...
## $ X2P._PerGame
                           <dbl> 0.408, 0.497, 0.500, 0.511, 0.397, 0.403...
## $ eFG._PerGame
                           <dbl> 0.359, 0.488, 0.500, 0.503, 0.392, 0.397...
## $ FT_PerGame
                           <dbl> 0.8, 2.8, 0.0, 0.6, 0.4, 1.1, 0.2, 0.3, ...
## $ FTA_PerGame
                           <dbl> 1.1, 3.9, 0.0, 0.8, 0.5, 1.5, 0.4, 0.6, ...
## $ FT._PerGame
                           <dbl> 0.733, 0.723, NA, 0.667, 0.875, 0.750, 0...
## $ ORB PerGame
                           <dbl> 0.2, 2.4, 0.0, 1.4, 0.4, 0.5, 0.3, 0.2, ...
```

```
## $ DRB PerGame
                           <dbl> 0.7, 3.5, 0.8, 1.7, 0.4, 1.1, 0.3, 0.4, ...
## $ TRB_PerGame
                           <dbl> 1.0, 5.9, 0.8, 3.1, 0.8, 1.6, 0.6, 0.6, ...
## $ AST PerGame
                           <dbl> 2.3, 6.0, 0.0, 1.6, 0.5, 2.0, 1.7, 1.1, ...
                           <dbl> 0.5, 3.0, 0.5, 1.0, 0.3, 1.0, 0.5, 0.5, ...
## $ STL_PerGame
## $ BLK_PerGame
                           <dbl> 0.1, 0.6, 0.0, 0.2, 0.1, 0.2, 0.1, 0.0, ...
## $ TOV PerGame
                           <dbl> 1.1, 3.6, 1.0, 1.2, 0.2, 1.0, 0.4, 0.7, ...
## $ PF PerGame
                           <dbl> 1.1, 4.0, 0.5, 2.4, 0.6, 1.8, 0.8, 1.2, ...
## $ PS.G PerGame
                           <dbl> 3.3, 17.3, 1.5, 8.6, 2.3, 6.9, 1.6, 1.6,...
all nba$All.NBA.TEAM.Yes...No = factor(all nba$All.NBA.TEAM.Yes...No)
levels(all nba$All.NBA.TEAM.Yes...No)
## [1] "No" "Yes"
all_nba_mean_centered <- all_nba %>%
  group_by(Year.End) %>%
  mutate(G = G - mean(G))
        GS = GS - mean(GS),
         MP Total = MP Total - mean(MP Total, na.rm=TRUE),
         FG_Total = FG_Total - mean(FG_Total, na.rm=TRUE),
         FGA_Total = FGA_Total - mean(FGA_Total, na.rm=TRUE),
         FG._Total = FG._Total - mean(FG._Total, na.rm=TRUE),
         X3P_Total = X3P_Total - mean(X3P_Total, na.rm=TRUE),
         X3PA_Total = X3PA_Total - mean(X3PA_Total, na.rm=TRUE),
         X3P._Total = X3P._Total - mean(X3P._Total, na.rm=TRUE),
         X2P_Total = X2P_Total - mean(X2P_Total, na.rm=TRUE),
         X2PA_Total = X2PA_Total - mean(X2PA_Total, na.rm=TRUE),
         X2P._Total = X2P._Total - mean(X2P._Total, na.rm=TRUE),
         eFG._Total = eFG._Total - mean(eFG._Total, na.rm=TRUE),
         FT_Total = FT_Total - mean(FT_Total, na.rm=TRUE),
         FTA_Total = FTA_Total - mean(FTA_Total, na.rm=TRUE),
         FT._Total = FT._Total - mean(FT._Total, na.rm=TRUE),
         ORB_Total = ORB_Total - mean(ORB_Total, na.rm=TRUE),
         DRB_Total = DRB_Total - mean(DRB_Total, na.rm=TRUE),
         TRB_Total = TRB_Total - mean(TRB_Total, na.rm=TRUE),
         AST_Total = AST_Total - mean(AST_Total, na.rm=TRUE),
         STL_Total = STL_Total - mean(STL_Total, na.rm=TRUE),
         BLK Total = BLK Total - mean(BLK Total, na.rm=TRUE),
         TOV_Total = TOV_Total - mean(TOV_Total, na.rm=TRUE),
         PF_Total
                   = PF_Total - mean(PF_Total, na.rm=TRUE),
         PTS_Total = PTS_Total - mean(PTS_Total, na.rm=TRUE),
                    = PER_ADV - mean(PER_ADV, na.rm=TRUE),
         PER ADV
         TS._ADV
                    = TS._ADV - mean(TS._ADV, na.rm=TRUE),
         X3PAr_ADV = X3PAr_ADV - mean(X3PAr_ADV, na.rm=TRUE),
         FTr_ADV
                    = FTr_ADV - mean(FTr_ADV, na.rm=TRUE),
         ORB._ADV
                   = ORB._ADV - mean(ORB._ADV, na.rm=TRUE),
         DRB._ADV
                   = DRB._ADV - mean(DRB._ADV, na.rm=TRUE),
         TRB. ADV
                   = TRB._ADV - mean(TRB._ADV, na.rm=TRUE),
         AST. ADV
                   = AST._ADV - mean(AST._ADV, na.rm=TRUE),
         STL. ADV
                   = STL._ADV - mean(STL._ADV, na.rm=TRUE),
        BLK._ADV
                    = BLK._ADV - mean(BLK._ADV, na.rm=TRUE),
         TOV._ADV
                    = TOV._ADV - mean(TOV._ADV, na.rm=TRUE),
         USG. ADV
                    = USG. ADV - mean(USG. ADV, na.rm=TRUE),
         OWS ADV
                   = OWS_ADV - mean(OWS_ADV, na.rm=TRUE),
         DWS ADV
                  = DWS_ADV - mean(DWS_ADV, na.rm=TRUE),
```

```
WS_ADV = WS_ADV - mean(WS_ADV, na.rm=TRUE),
WS.48_ADV = WS.48_ADV - mean(WS.48_ADV, na.rm=TRUE),
          = OBPM_ADV - mean(OBPM_ADV, na.rm=TRUE),
OBPM_ADV
DBPM ADV
          = DBPM_ADV - mean(DBPM_ADV, na.rm=TRUE),
BPM_ADV
           = BPM_ADV - mean(BPM_ADV, na.rm=TRUE),
VORP ADV
          = VORP_ADV - mean(VORP_ADV, na.rm=TRUE),
FG_Per100 = FG_Per100 - mean(FG_Per100, na.rm=TRUE),
FGA_Per100 = FGA_Per100 - mean(FGA_Per100, na.rm=TRUE),
FG._Per100 = FG._Per100 - mean(FG._Per100, na.rm=TRUE),
X3P_Per100 = X3P_Per100 - mean(X3P_Per100, na.rm=TRUE),
X3PA Per100
            = X3PA_Per100 - mean(X3PA_Per100, na.rm=TRUE),
X3P. Per100
              = X3P._Per100 - mean(X3P._Per100, na.rm=TRUE),
X2P Per100 = X2P Per100 - mean(X2P Per100, na.rm=TRUE),
X2PA Per100
              = X2PA_Per100 - mean(X2PA_Per100, na.rm=TRUE),
X2P. Per100
              = X2P._Per100 - mean(X2P._Per100, na.rm=TRUE),
FT_Per100 = FT_Per100 - mean(FT_Per100, na.rm=TRUE),
FTA_Per100 = FTA_Per100 - mean(FTA_Per100, na.rm=TRUE),
FT._Per100 = FT._Per100 - mean(FT._Per100, na.rm=TRUE),
ORB_Per100 = ORB_Per100 - mean(ORB_Per100, na.rm=TRUE),
DRB_Per100 = DRB_Per100 - mean(DRB_Per100, na.rm=TRUE),
TRB_Per100 = TRB_Per100 - mean(TRB_Per100, na.rm=TRUE),
AST_Per100 = AST_Per100 - mean(AST_Per100, na.rm=TRUE),
STL_Per100 = STL_Per100 - mean(STL_Per100, na.rm=TRUE),
BLK_Per100 = BLK_Per100 - mean(BLK_Per100, na.rm=TRUE),
TOV_Per100 = TOV_Per100 - mean(TOV_Per100, na.rm=TRUE),
PF_Per100 = PF_Per100 - mean(PF_Per100, na.rm=TRUE),
PTS_Per100 = PTS_Per100 - mean(PTS_Per100, na.rm=TRUE),
              = ORtg_Per100 - mean(ORtg_Per100, na.rm=TRUE),
ORtg Per100
DRtg Per100
              = DRtg_Per100 - mean(DRtg_Per100, na.rm=TRUE),
MP_PerGame = MP_PerGame - mean(MP_PerGame, na.rm=TRUE),
FG_PerGame = FG_PerGame - mean(FG_PerGame, na.rm=TRUE),
              = FGA_PerGame - mean(FGA_PerGame, na.rm=TRUE),
FGA_PerGame
FG._PerGame
              = FG._PerGame - mean(FG._PerGame, na.rm=TRUE),
X3P_PerGame
              = X3P_PerGame - mean(X3P_PerGame, na.rm=TRUE),
X3PA_PerGame = X3PA_PerGame - mean(X3PA_PerGame, na.rm=TRUE),
X3P._PerGame= X3P._PerGame - mean(X3P._PerGame, na.rm=TRUE),
X2P_PerGame
              = X2P_PerGame - mean(X2P_PerGame, na.rm=TRUE),
X2PA_PerGame= X2PA_PerGame - mean(X2PA_PerGame, na.rm=TRUE),
X2P._PerGame
              = X2P._PerGame - mean(X2P._PerGame, na.rm=TRUE),
eFG. PerGame
              = eFG._PerGame - mean(eFG._PerGame, na.rm=TRUE),
FT_PerGame = FT_PerGame - mean(FT_PerGame, na.rm=TRUE),
FTA PerGame
              = FTA_PerGame - mean(FTA_PerGame, na.rm=TRUE),
FT. PerGame
               = FT. PerGame - mean(FT. PerGame, na.rm=TRUE),
ORB PerGame
              = ORB_PerGame - mean(ORB_PerGame, na.rm=TRUE),
DRB PerGame
              = DRB_PerGame - mean(DRB_PerGame, na.rm=TRUE),
TRB_PerGame
              = TRB_PerGame - mean(TRB_PerGame, na.rm=TRUE),
AST_PerGame
              = AST_PerGame - mean(AST_PerGame, na.rm=TRUE),
STL_PerGame
              = STL_PerGame - mean(STL_PerGame, na.rm=TRUE),
              = BLK_PerGame - mean(BLK_PerGame, na.rm=TRUE),
BLK_PerGame
TOV_PerGame
              = TOV_PerGame - mean(TOV_PerGame, na.rm=TRUE),
PF_PerGame = PF_PerGame - mean(PF_PerGame, na.rm=TRUE),
PS.G_PerGame = PS.G_PerGame - mean(PS.G_PerGame, na.rm=TRUE))
```

```
all_nba_mean_centered_no_NA <- all_nba_mean_centered %>%
  na.omit()
model.full <- glm(All.NBA.TEAM.Yes...No ~ G +</pre>
         #GS +
         \#MP\_Total +
         \#FG\_Total +
         \#FGA\_Total +
         \#FG.\_Total +
         #X3P_Total +
         #X3PA_Total +
         #X3P._Total +
         #X2P_Total +
         \#X2PA\_Total +
         #X2P._Total +
         #eFG._Total +
         #FT_Total +
         #FTA_Total +
         #FT._Total +
         #ORB_Total +
         #DRB_Total +
         #TRB_Total +
         \#AST\_Total +
         #STL_Total +
         #BLK_Total +
         #TOV Total +
         #PF_Total +
         #PTS_Total +
         #PER_ADV +
         \#TS.\_ADV +
         \#X3PAr\_ADV +
         #FTr_ADV +
         #ORB._ADV +
         \#DRB.\_ADV +
         #TRB._ADV +
         #AST._ADV +
         #STL._ADV +
         #BLK._ADV +
         \#TOV.\_ADV +
         #USG._ADV +
         #OWS_ADV +
         #DWS_ADV +
         #WS_ADV +
         #WS.48_ADV +
         #OBPM_ADV +
         #DBPM_ADV +
         #BPM_ADV +
         #VORP_ADV +
         #FG_Per100 +
         #FGA_Per100 +
         #FG._Per100 +
         #X3P_Per100 +
         #X3PA_Per100 +
         #X3P._Per100 +
```

```
#X2P_Per100 +
         #X2PA_Per100 +
         X2P. Per100 +
         #FT_Per100 +
         FTA_Per100 +
         FT._Per100 +
         #ORB_Per100 +
         #DRB_Per100 +
         TRB_Per100 +
         #AST_Per100 +
         STL_Per100 +
         #BLK_Per100 +
         #TOV_Per100 +
         #PF_Per100 +
         #PTS_Per100 +
         \#ORtg\_Per100 +
         \#DRtg\_Per100 +
         #MP_PerGame +
         \#FG\_PerGame +
         #FGA_PerGame +
         #FG._PerGame +
         #X3P_PerGame +
         #X3PA_PerGame +
         #X3P._PerGame +
         #X2P_PerGame +
         #X2PA_PerGame +
         #X2P._PerGame +
         #eFG._PerGame +
         #FT_PerGame +
         #FTA_PerGame +
         #FT._PerGame +
         #ORB_PerGame +
         #DRB_PerGame +
         #TRB_PerGame +
         #AST_PerGame +
         #STL_PerGame +
         #BLK_PerGame +
         #TOV_PerGame +
         #PF_PerGame +
         PS.G_PerGame, family=binomial,data=all_nba_mean_centered_no_NA) #model will all possible varia
AIC(model.full)
## [1] 1101.906
stepAIC(model.full, direction= "forward")
## Start: AIC=1101.91
## All.NBA.TEAM.Yes...No ~ G + X2P._Per100 + FTA_Per100 + FT._Per100 +
       TRB_Per100 + STL_Per100 + PS.G_PerGame
##
## Call: glm(formula = All.NBA.TEAM.Yes...No ~ G + X2P._Per100 + FTA_Per100 +
##
       FT._Per100 + TRB_Per100 + STL_Per100 + PS.G_PerGame, family = binomial,
##
       data = all_nba_mean_centered_no_NA)
##
```