

lab2_fifa_sophie

2022-04-01

Note that the `echo = FALSE` prevent printing of the R code that generated the plot.

```
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --
## v ggplot2 3.3.5      v purrr  0.3.4
## v tibble  3.1.6      v dplyr  1.0.8
## v tidyr   1.2.0      v stringr 1.4.0
## v readr   2.1.2      v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

library(magrittr)

##
## Attaching package: 'magrittr'

## The following object is masked from 'package:purrr':
##
##   set_names

## The following object is masked from 'package:tidyr':
##
##   extract

library(ggplot2)
library(patchwork)
library(sandwich)
library(lmtest)

## Loading required package: zoo

##
## Attaching package: 'zoo'

## The following objects are masked from 'package:base':
##
##   as.Date, as.Date.numeric

library(fec16)
library(stargazer)

##
## Please cite as:
## Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.
## R package version 5.2.3. https://CRAN.R-project.org/package=stargazer
```

```

library(nnet)

data <- read.csv('data/external/FIFA22_official_data.csv')
df <- (filter(data, Best.Position == "GK"))

na.omit(df)

## [1] ID Name Age
## [4] Photo Nationality Flag
## [7] Overall Potential Club
## [10] Club.Logo Value Wage
## [13] Special Preferred.Foot International.Reputation
## [16] Weak.Foot Skill.Moves Work.Rate
## [19] Body.Type Real.Face Position
## [22] Jersey.Number Joined Loaned.From
## [25] Contract.Valid.Until Height Weight
## [28] Crossing Finishing HeadingAccuracy
## [31] ShortPassing Volleys Dribbling
## [34] Curve FKAccuracy LongPassing
## [37] BallControl Acceleration SprintSpeed
## [40] Agility Reactions Balance
## [43] ShotPower Jumping Stamina
## [46] Strength LongShots Aggression
## [49] Interceptions Positioning Vision
## [52] Penalties Composure Marking
## [55] StandingTackle SlidingTackle GKDiving
## [58] GKHandling GKKicking GKPositioning
## [61] GKReflexes Best.Position Best.Overall.Rating
## [64] Release.Clause DefensiveAwareness
## <0 rows> (or 0-length row.names)

money_formatter <- function(x) {
  x <- gsub("€", "", x)
  x <- case_when(
    grepl("K", x, fixed=TRUE) ~ as.numeric(gsub("K", "", x))*1e3,
    grepl("M", x, fixed=TRUE) ~ as.numeric(gsub("M", "", x))*1e6,
    TRUE ~ as.numeric(x)
  )
  return(x)
}

weight_formatter <- function(x) {
  x <- case_when(
    grepl("kg", x, fixed=TRUE) ~ as.numeric(gsub("kg", "", x)),
    grepl("cm", x, fixed=TRUE) ~ as.numeric(gsub("cm", "", x)),
    TRUE ~ as.numeric(x)
  )
  return(x)
}

df$Value <- money_formatter(df$Value)

## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion

## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion

```

```
## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion
df$Wage <- money_formatter(df$Wage)
```

```
## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion
```

```
## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion
df$Height <- weight_formatter(df$Height)
```

```
## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion
```

```
## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion
df$Weight <- weight_formatter(df$Weight)
```

```
## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion
```

```
## Warning in eval_tidy(pair$rhs, env = default_env): NAs introduced by coercion
```

```
model1 <- lm(Value ~ Age+
              Nationality+
              Overall+
              Potential+
              # Club+
              Preferred.Foot+
              International.Reputation+
              Height+
              Weight,
              data=df)
stargazer(model1)
```

```
##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac@sp.i.cas.cz
## % Date and time: Fri, Apr 01, 2022 - 13:30:08
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lc}
## \hline
## \hline \hline
## & \multicolumn{1}{c}{\textit{Dependent variable:}} & \\
## \cline{2-2}
## \hline \hline
## Age & $-669,580.100^{***}$ & \\
## & (55,356.080) & \\
## & & \\
## NationalityAlgeria & $-4,286,923.000$ & \\
## & (5,512,328.000) & \\
## & & \\
## NationalityArgentina & $-1,949,336.000$ & \\
## & (4,344,069.000) & \\
## & & \\
## NationalityArmenia & 713,296.900 & \\
## & (7,423,080.000) & \end{tabular}
```

```

## & \
## NationalityAustralia & $-$205,217.000 \
## & (4,518,505.000) \
## & \
## NationalityAustria & $-$2,510,043.000 \
## & (4,465,540.000) \
## & \
## NationalityBelgium & $-$251,023.900 \
## & (4,440,842.000) \
## & \
## NationalityBenin & $-$4,264,174.000 \
## & (7,390,912.000) \
## & \
## NationalityBolivia & $-$1,886,023.000 \
## & (6,049,724.000) \
## & \
## NationalityBosnia and Herzegovina & $-$3,152,518.000 \
## & (4,933,872.000) \
## & \
## NationalityBrazil & $-$2,211,585.000 \
## & (4,336,745.000) \
## & \
## NationalityBulgaria & $-$1,448,125.000 \
## & (5,243,687.000) \
## & \
## NationalityBurkina Faso & $-$5,503,306.000 \
## & (7,391,597.000) \
## & \
## NationalityCameroon & $-$1,074,937.000 \
## & (4,855,832.000) \
## & \
## NationalityCanada & $-$944,935.500 \
## & (4,724,588.000) \
## & \
## NationalityChile & $-$3,399,650.000 \
## & (4,649,523.000) \
## & \
## NationalityChina PR & 34,704.530 \
## & (4,742,674.000) \
## & \
## NationalityColombia & $-$3,297,739.000 \
## & (4,591,610.000) \
## & \
## NationalityCongo & $-$4,746,287.000 \
## & (7,390,824.000) \
## & \
## NationalityCongo DR & $-$5,595,849.000 \
## & (7,405,237.000) \
## & \
## NationalityCosta Rica & $-$5,224,410.000 \
## & (6,036,638.000) \
## & \
## NationalityCôte d'Ivoire & $-$1,930,868.000 \
## & (5,063,018.000) \

```

```

## & \
## NationalityCroatia & $-$3,357,560.000 \
## & (4,511,911.000) \
## & \
## NationalityCuba & $-$5,128,631.000 \
## & (7,395,088.000) \
## & \
## NationalityCuracao & $-$2,273,522.000 \
## & (6,039,314.000) \
## & \
## NationalityCyprus & $-$2,154,695.000 \
## & (7,442,023.000) \
## & \
## NationalityCzech Republic & $-$3,364,534.000 \
## & (4,486,450.000) \
## & \
## NationalityDenmark & $-$2,939,634.000 \
## & (4,463,638.000) \
## & \
## NationalityEcuador & $-$2,035,496.000 \
## & (4,687,163.000) \
## & \
## NationalityEgypt & $-$2,959,932.000 \
## & (5,516,738.000) \
## & \
## NationalityEl Salvador & $-$3,551,566.000 \
## & (7,399,202.000) \
## & \
## NationalityEngland & $-$1,353,285.000 \
## & (4,304,826.000) \
## & \
## NationalityEstonia & $-$1,041,870.000 \
## & (7,406,227.000) \
## & \
## NationalityFinland & $-$1,476,250.000 \
## & (4,725,711.000) \
## & \
## NationalityFrance & $-$4,062,604.000 \
## & (4,323,825.000) \
## & \
## NationalityGeorgia & $-$2,722,357.000 \
## & (6,029,474.000) \
## & \
## NationalityGermany & $-$2,780,009.000 \
## & (4,305,945.000) \
## & \
## NationalityGhana & $-$2,842,633.000 \
## & (5,231,101.000) \
## & \
## NationalityGreece & $-$3,074,792.000 \
## & (4,543,879.000) \
## & \
## NationalityGuinea & $-$670,641.200 \
## & (7,398,989.000) \

```

```

##      & \\
## NationalityGuyana & 3,035,610.000 \\
##      & (7,429,750.000) \\
##      & \\
## NationalityHaiti & $-$121,457.800 \\
##      & (7,418,218.000) \\
##      & \\
## NationalityHonduras & $-$3,836,851.000 \\
##      & (7,417,496.000) \\
##      & \\
## NationalityHungary & $-$3,025,771.000 \\
##      & (4,846,050.000) \\
##      & \\
## NationalityIceland & $-$2,681,764.000 \\
##      & (4,930,403.000) \\
##      & \\
## NationalityIndia & 2,149,485.000 \\
##      & (4,708,065.000) \\
##      & \\
## NationalityIran & $-$4,270,774.000 \\
##      & (6,033,921.000) \\
##      & \\
## NationalityIsrael & $-$1,611,786.000 \\
##      & (6,041,571.000) \\
##      & \\
## NationalityItaly & $-$1,041,318.000 \\
##      & (4,334,763.000) \\
##      & \\
## NationalityJamaica & $-$4,807,879.000 \\
##      & (6,033,872.000) \\
##      & \\
## NationalityJapan & $-$2,187,267.000 \\
##      & (4,489,344.000) \\
##      & \\
## NationalityKorea Republic & $-$1,539,906.000 \\
##      & (4,511,783.000) \\
##      & \\
## NationalityKosovo & $-$3,366,898.000 \\
##      & (6,034,248.000) \\
##      & \\
## NationalityLiechtenstein & $-$1,186,831.000 \\
##      & (6,045,243.000) \\
##      & \\
## NationalityLithuania & $-$3,420,247.000 \\
##      & (7,392,539.000) \\
##      & \\
## NationalityLuxembourg & $-$2,827,297.000 \\
##      & (7,399,582.000) \\
##      & \\
## NationalityMali & $-$3,823,145.000 \\
##      & (7,389,272.000) \\
##      & \\
## NationalityMexico & $-$2,228,960.000 \\
##      & (4,396,381.000) \\

```

```

## & \
## NationalityMontenegro & $-$3,168,674.000 \
## & (7,395,233.000) \
## & \
## NationalityMorocco & 2,669,008.000 \
## & (5,507,043.000) \
## & \
## NationalityNetherlands & $-$3,454,798.000 \
## & (4,357,321.000) \
## & \
## NationalityNew Zealand & $-$2,800,121.000 \
## & (4,935,648.000) \
## & \
## NationalityNigeria & $-$7,428,032.000 \
## & (5,231,258.000) \
## & \
## NationalityNorth Macedonia & $-$2,856,928.000 \
## & (5,506,728.000) \
## & \
## NationalityNorthern Ireland & 1,149,881.000 \
## & (4,785,600.000) \
## & \
## NationalityNorway & $-$2,209,644.000 \
## & (4,522,471.000) \
## & \
## NationalityOman & $-$4,347,859.000 \
## & (7,406,073.000) \
## & \
## NationalityPanama & $-$3,571,539.000 \
## & (7,387,911.000) \
## & \
## NationalityParaguay & $-$2,717,932.000 \
## & (4,939,408.000) \
## & \
## NationalityPeru & $-$1,362,080.000 \
## & (5,061,234.000) \
## & \
## NationalityPhilippines & $-$3,552,290.000 \
## & (7,387,701.000) \
## & \
## NationalityPoland & $-$2,599,745.000 \
## & (4,453,610.000) \
## & \
## NationalityPortugal & $-$2,356,689.000 \
## & (4,406,983.000) \
## & \
## NationalityRepublic of Ireland & $-$426,376.800 \
## & (4,441,583.000) \
## & \
## NationalityRomania & $-$2,293,644.000 \
## & (4,568,253.000) \
## & \
## NationalityRussia & $-$3,231,170.000 \
## & (4,453,760.000) \

```

```

## & \
## NationalitySaudi Arabia & 1,037,260.000 \
## & (4,860,339.000) \
## & \
## NationalityScotland & $-$166,779.900 \
## & (4,465,831.000) \
## & \
## NationalitySenegal & $-$1,991,546.000 \
## & (4,642,940.000) \
## & \
## NationalitySerbia & $-$2,767,133.000 \
## & (4,611,119.000) \
## & \
## NationalitySlovakia & $-$3,330,902.000 \
## & (4,837,120.000) \
## & \
## NationalitySlovenia & 6,018,521.000 \
## & (4,843,662.000) \
## & \
## NationalitySouth Africa & $-$2,081,935.000 \
## & (4,945,030.000) \
## & \
## NationalitySpain & $-$3,386,883.000 \
## & (4,307,733.000) \
## & \
## NationalitySuriname & $-$3,004,108.000 \
## & (7,391,019.000) \
## & \
## NationalitySweden & $-$2,605,080.000 \
## & (4,429,770.000) \
## & \
## NationalitySwitzerland & $-$1,254,908.000 \
## & (4,462,936.000) \
## & \
## NationalityThailand & $-$922,034.400 \
## & (7,401,412.000) \
## & \
## NationalityTogo & $-$2,942,196.000 \
## & (7,394,412.000) \
## & \
## NationalityTrinidad and Tobago & 2,055,671.000 \
## & (7,411,826.000) \
## & \
## NationalityTunisia & $-$3,618,603.000 \
## & (7,396,934.000) \
## & \
## NationalityTurkey & $-$2,881,104.000 \
## & (4,415,345.000) \
## & \
## NationalityUkraine & $-$4,603,839.000 \
## & (4,719,918.000) \
## & \
## NationalityUnited Arab Emirates & $-$818,437.100 \
## & (5,539,756.000) \

```



```

## & \\
## NationalityUnited States & $-$1,855,892.000 \\
## & (4,375,781.000) \\
## & \\
## NationalityUruguay & $-$4,068,209.000 \\
## & (4,487,055.000) \\
## & \\
## NationalityVenezuela & $-$3,301,800.000 \\
## & (4,844,864.000) \\
## & \\
## NationalityVietnam & $-$2,556,728.000 \\
## & (7,401,775.000) \\
## & \\
## NationalityWales & $-$2,419,309.000 \\
## & (4,729,313.000) \\
## & \\
## Overall & 718,489.800$^{***}$ \\
## & (55,928.310) \\
## & \\
## Potential & $-$158,673.100$^{**}$ \\
## & (62,079.910) \\
## & \\
## Preferred.FootRight & $-$292,245.900 \\
## & (487,122.500) \\
## & \\
## International.Reputation & 5,756,134.000$^{***}$ \\
## & (400,414.100) \\
## & \\
## Height & $-$22,648.830 \\
## & (44,397.640) \\
## & \\
## Weight & 28,935.090 \\
## & (33,234.510) \\
## & \\
## Constant & $-$18,394,972.000$^{**}$ \\
## & (9,088,812.000) \\
## & \\
## \hline \\[-1.8ex]
## Observations & 1,546 \\
## R$^{2}$ & 0.447 \\
## Adjusted R$^{2}$ & 0.406 \\
## Residual Std. Error & 6,025,491.000 (df = 1440) \\
## F Statistic & 11.075$^{***}$ (df = 105; 1440) \\
## \hline
## \hline \\[-1.8ex]
## \textit{Note:} & \multicolumn{1}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
## \end{tabular}
## \end{table}

```