

Projekt

Analiza podataka o igračima NHL lige

Učitavanje podataka

Učitavamo podatke i analiziramo kako oni izgledaju.

```
players.data = read_xls("NHL_2016-17.xls")
```

```
## New names:
## * ' ' -> ...1
## * ' ' -> ...2
## * ' ' -> ...3
## * ' ' -> ...4
## * ' ' -> ...5
## * ...
```

```
head(players.data)
```

```
## # A tibble: 6 x 167
##   ...1    ...2    ...3    ...4    ...5    ...6    ...7    ...8    ...9   ...10  ...11  ...12  ...13
##   <chr>  <chr>  <chr>  <chr>  <chr>  <chr>  <chr>  <chr>  <chr>  <chr>  <chr>  <chr>  <chr>
## 1 NHL    NHL    NHL    NHL    NHL    NHL    NHL    NHL    NHL    NHL    NHL    NHL    <NA>
## 2 Born   City   Pr/St  Cntry  Nat    Ht     Wt     DftYr  DftRd  Ovr1   Hand  NHLid  Last~
## 3 1988-- Hami~ ON     CAN    CAN    69     170    <NA>   <NA>   <NA>   R     8476~  Abbo~
## 4 1987-- Musk~ MI     USA    USA    74     218    2005   2     42    L     8471~  Abde~
## 5 1993-- Stoc~ <NA>   SWE    SWE    71     196    2012   2     37    R     8476~  Aberg
## 6 1991-- John~ RI     USA    USA    70     208    <NA>   <NA>   <NA>   R     8478~  Acci~
## # ... with 154 more variables: ...14 <chr>, ...15 <chr>, ...16 <chr>, 'Primary
## #   Stats' <chr>, ...18 <chr>, ...19 <chr>, ...20 <chr>, ...21 <chr>,
## #   ...22 <chr>, ...23 <chr>, ...24 <chr>, ...25 <chr>, ...26 <chr>,
## #   ...27 <chr>, ...28 <chr>, ...29 <chr>, ...30 <chr>, ...31 <chr>,
## #   ...32 <chr>, 'Key Team Stats' <chr>, ...34 <chr>, ...35 <chr>, ...36 <chr>,
## #   ...37 <chr>, ...38 <chr>, ...39 <chr>, ...40 <chr>, 'Individual
## #   Stats' <chr>, ...42 <chr>, ...43 <chr>, ...44 <chr>, ...45 <chr>,
## #   ...46 <chr>, ...47 <chr>, ...48 <chr>, ...49 <chr>, ...50 <chr>,
## #   ...51 <chr>, ...52 <chr>, ...53 <chr>, ...54 <chr>, ...55 <chr>,
## #   ...56 <chr>, ...57 <chr>, ...58 <chr>, ...59 <chr>, ...60 <chr>,
## #   ...61 <chr>, ...62 <chr>, ...63 <chr>, ...64 <chr>, ...65 <chr>,
## #   ...66 <chr>, ...67 <chr>, ...68 <chr>, ...69 <chr>, ...70 <chr>,
## #   ...71 <chr>, ...72 <chr>, ...73 <chr>, ...74 <chr>, ...75 <chr>,
## #   ...76 <chr>, ...77 <chr>, ...78 <chr>, ...79 <chr>, ...80 <chr>,
## #   ...81 <chr>, ...82 <chr>, ...83 <chr>, ...84 <chr>, ...85 <chr>,
## #   ...86 <chr>, ...87 <chr>, ...88 <chr>, ...89 <chr>, ...90 <chr>,
## #   ...91 <chr>, ...92 <chr>, ...93 <chr>, ...94 <chr>, ...95 <chr>,
```

```
## # ...96 <chr>, ...97 <chr>, ...98 <chr>, ...99 <chr>, ...100 <chr>,
## # ...101 <chr>, ...102 <chr>, ...103 <chr>, ...104 <chr>, ...105 <chr>,
## # ...106 <chr>, ...107 <chr>, ...108 <chr>, ...109 <chr>, ...110 <chr>,
## # ...111 <chr>, ...112 <chr>, ...113 <chr>, ...
```

```
goalies.data = read_xls("NHL_Goalies_2016-17.xls")
```

```
## New names:
## * SA -> SA...22
## * GA -> GA...24
## * 'AdjSV%' -> 'AdjSV%...64'
## * 'AdjSV%' -> 'AdjSV%...74'
## * SA -> SA...77
## * ...
```

```
head(goalies.data)
```

```
## # A tibble: 6 x 111
##   'Last Name' 'First Name' 'Team(s)' DOB   'Birth City' 'S/P' Cntry Nat   Ht
##   <chr>      <chr>      <chr>    <chr> <chr>      <chr> <chr> <chr> <dbl>
## 1 Allen      Jake        STL      1990~ Fredericton NB     CAN  CAN    74
## 2 Alves      Jorge        CAR      1979~ Boston      MA     USA  USA    69
## 3 Andersen   Frederik     TOR      1989~ Herning     <NA>  DNK  DNK    76
## 4 Anderson   Craig        OTT      1981~ Park Ridge  IL     USA  USA    74
## 5 Bachman    Richard      VAN      1987~ Salt Lake C~ UT     USA  USA    70
## 6 Bernier    Jonathan     ANA      1988~ Laval       QC     CAN  CAN    72
## # ... with 102 more variables: Wt <dbl>, Sh <chr>, 'Dft Yr' <dbl>, Rd <dbl>,
## #   Ovr1 <dbl>, GP <dbl>, GS <dbl>, GR <dbl>, W <dbl>, L <dbl>, T <dbl>,
## #   OTL <dbl>, SA...22 <dbl>, SV <dbl>, GA...24 <dbl>, 'SV%' <dbl>, GAA <dbl>,
## #   GSAA <dbl>, MIN <dbl>, SO <dbl>, G <dbl>, A <dbl>, PTS <dbl>, PIM <dbl>,
## #   PenT <dbl>, PenD <dbl>, PenDf <dbl>, Supp <dbl>, QoC <dbl>, StMin <dbl>,
## #   StSV <dbl>, StGA <dbl>, 'StSV%' <dbl>, StGAA <dbl>, QS <dbl>, 'QS%' <dbl>,
## #   RBS <dbl>, Pull <dbl>, ReMin <dbl>, ReSV <dbl>, ReGA <dbl>, 'ReSV%' <dbl>,
## #   ReGAA <dbl>, Dist <chr>, Reb <dbl>, Rush <dbl>, DS <dbl>, HighS <dbl>,
## #   HighG <dbl>, 'HighSV%' <dbl>, MedS <dbl>, MedG <dbl>, LowS <dbl>,
## #   LowG <dbl>, 'AdjSV%...64' <dbl>, EVSA <dbl>, EVGA <dbl>, 'EV SV%' <dbl>,
## #   'PP SA' <dbl>, 'PP GA' <dbl>, 'PP SV%' <dbl>, 'SH SA' <dbl>, 'SH GA' <dbl>,
## #   'SH SV%' <dbl>, 'AdjSV%...74' <dbl>, CA <dbl>, FA <dbl>, SA...77 <dbl>,
## #   xGA <dbl>, GA...79 <dbl>, 'TrueSV%' <dbl>, 'ExpSV%' <dbl>, xGSAA <dbl>,
## #   'ZS%' <dbl>, OZS <dbl>, DZS <dbl>, NZS <dbl>, CF <dbl>, FF <dbl>, SF <dbl>,
## #   xGF <dbl>, GF <dbl>, RebF <dbl>, RushF <dbl>, SOS <dbl>, SOG <dbl>, 'SO
## #   SV%' <dbl>, SOW <dbl>, SOL <dbl>, NMC <chr>, Status <chr>, Salary <dtm>,
## #   'Cap Hit' <dtm>, Pace <dbl>, '1st' <dbl>, '2nd' <dbl>, '3rd' <dbl>,
## #   Star <dbl>, GPS <dbl>, Ginj <dbl>, ...
```