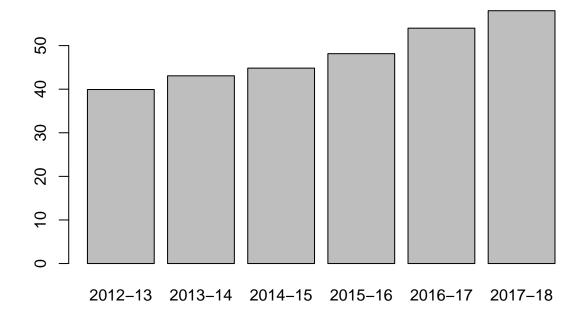
seminarska.r

Gal

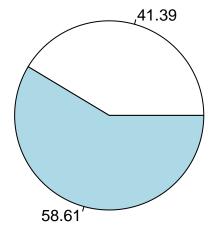
2022-12-04

```
library(CORElearn)
# HELPERS
Split70to30 <- function(data)</pre>
    train <- data[1:round(0.7*nrow(data)),]</pre>
    test <- data[-(1:round(0.7*nrow(data))),]</pre>
    return(list(train, test))
}
attr <- function(position, attrName) {</pre>
    return(paste(position, attrName, sep=""));
# __START
set.seed(0)
setwd("C:/Users/Gal/Documents/FRI/UI/Seminarska/")
md <- read.table(file="nbadata.txt", sep=",", header=TRUE)</pre>
md <- md[order(md$gmDate),];</pre>
SEASONS = unique(md$gmSeason);
TEAMS = unique(c(md$awayAbbr, md$homeAbbr))
# # VIZUALIZACIJA
# povprecno stevilo metov trojk obeh ekip skupaj na sezono
averageThrees <- vector()</pre>
for(season in SEASONS) {
    seasonGames <- md$gmSeason == season;</pre>
    averageThrees <- c(averageThrees, mean(md$home3PA[seasonGames] + md$away3PA[seasonGames]));</pre>
barplot(averageThrees, names=SEASONS, main="Povprecno število vseh metov za tri pike v tekmi na sezono"
```

Povprecno število vseh metov za tri pike v tekmi na sezono

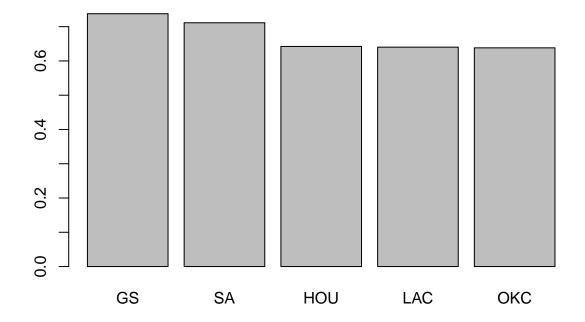


Zmage doma (modro) VS zmage v gostovanju (belo)



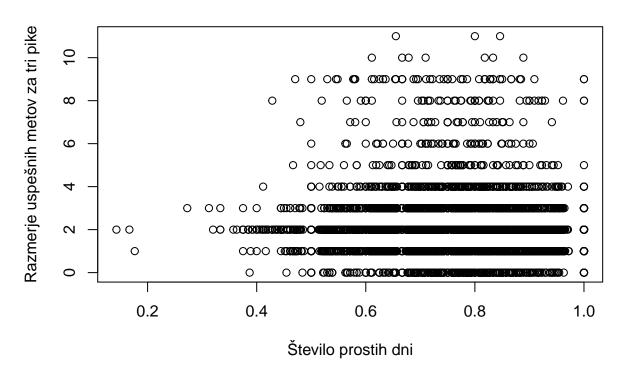
```
# # najboljsa ekipa po razmerju zmag
winRatioByTeam = list();
for (team in TEAMS) {
    homeGames <- md$homeAbbr == team;
    awayGames <- md$awayAbbr == team;
    homeWins <- md$homePTS[homeGames] > md$awayPTS[homeGames];
    awayWins <- md$homePTS[awayGames] < md$awayPTS[awayGames];
    totalWins <- sum(homeWins) + sum(awayWins);
    totalGames <- sum(homeGames) + sum(awayGames);
    ratio <- totalWins / totalGames;
    winRatioByTeam[[team]] <- ratio;
}
winRatioByTeam <- sort(unlist(winRatioByTeam), decreasing=TRUE);
barplot(winRatioByTeam[1:5], names=names(winRatioByTeam)[1:5], main="Top 5 najboljših ekip po razmerju :</pre>
```

Top 5 najboljših ekip po razmerju zmag



```
# # Graf odvisnosti uspesnih prostih metov od stevila prostih dni
homeFreeShotSuccessRatio = md$homeFTM / md$homeFTA;
awayFreeShotSuccessRatio = md$awayFTM / md$awayFTA;
totalFreeShotSuccessRatio = append(homeFreeShotSuccessRatio, awayFreeShotSuccessRatio);
daysOff = append(md$homeDayOff, md$awayDayOff);
plot(totalFreeShotSuccessRatio,daysOff, main="Razmerje uspešnih prostih metov odvisno od števila prostil
```

Razmerje uspešnih prostih metov odvisno od števila prostih dni



```
structureTeamData <- function(games, position)</pre>
{
                 teamStatistics <- list();</pre>
                 teamStatistics[[attr(position, "PTS")]] <- mean(games[[attr(position, "PTS")]]);</pre>
                 teamStatistics[[attr(position, "ORBR")]] <- mean(games[[attr(position, "ORB")]] / games[[attr(position, "ORB"]]] / games[[attr(posit
                 teamStatistics[[attr(position, "DRBR")]] <- mean(games[[attr(position, "DRB")]] / games[[attr(position, "DRB"]]] / games[[attr(posit
                 # percetanges
                 teamStatistics[[attr(position, "FGR")]] <- mean(games[[attr(position, "FGM")]] / games[[attr(position
                 teamStatistics[[attr(position, "3PR")]] <- mean(games[[attr(position, "3PM")]] / games[[attr(position
                 teamStatistics[[attr(position, "2PR")]] <- mean(games[[attr(position, "2PM")]] / games[[attr(position
                 teamStatistics[[attr(position, "FTR")]] <- mean(games[[attr(position, "FTM")]] / games[[attr(position
                return(teamStatistics);
}
pastWinLoseRatio <- function (teamAbbr, beforeDate, data) {</pre>
                 homeGamesSelection <- data$homeAbbr == teamAbbr & data$gmDate < beforeDate;</pre>
                homeGames <- data[homeGamesSelection,];</pre>
                homeWinsRatio <- mean(homeGames$homePTS > homeGames$awayPTS);
                 awayGamesSelection <- data$awayAbbr == teamAbbr & data$gmDate < beforeDate;</pre>
                 awayGames <- data[awayGamesSelection,];</pre>
                 if (nrow(homeGames) == 0 && nrow(awayGames) == 0) {
                                  return(0);
```

```
awayWinsRatio <- mean(awayGames$homePTS < awayGames$awayPTS);</pre>
    if (is.na(homeWinsRatio)) {
        return(awayWinsRatio);
    }
    if (is.na(awayWinsRatio)) {
        return(homeWinsRatio);
    }
    return ((homeWinsRatio + awayWinsRatio) / 2);
}
# vrne pozitiven rezultat ce ima ekipa1 overal vec tock , negativen pa ce jih ima ekipa2 vec
pastMatchesScoreDifference <- function (team1, team2, beforeDate) {</pre>
    homeGamesSelection <- md$homeAbbr == team1 & md$awayAbbr == team2 & md$gmDate < beforeDate;
    homeGames <- md[homeGamesSelection,];</pre>
    homeGamesScoreDifference <- sum(homeGames$homePTS - homeGames$awayPTS);</pre>
    awayGamesSelection <- md$homeAbbr == team2 & md$awayAbbr == team1 & md$gmDate < beforeDate;</pre>
    awayGames <- md[awayGamesSelection,];</pre>
    awayGamesScoreDifference <- sum(awayGames$awayPTS - awayGames$homePTS);</pre>
    totalSum = homeGamesScoreDifference + awayGamesScoreDifference;
    if (is.null(totalSum) || is.na(totalSum)) {
        return(0);
    return (totalSum);
}
# structuredData <- data.frame();</pre>
# for (i in 1:nrow(md)) {
      game <- md[i,];</pre>
      homeTeamGamesSelection <- md$homeAbbr == game$homeAbbr & md$gmDate < game$gmDate;
#
      homeTeamGames <- md[homeTeamGamesSelection,];</pre>
#
#
      if (nrow(homeTeamGames) == 0) {
#
           next:
#
#
      structuredHomeTeamData = structureTeamData(homeTeamGames, "home");
#
      awayTeamGamesSelection <- md$awayAbbr == qame$awayAbbr & md$qmDate < qame$qmDate;</pre>
#
      awayTeamGames <- md[awayTeamGamesSelection,];</pre>
#
      if (nrow(awayTeamGames) == 0) {
#
           next;
#
#
      structuredAwayTeamData = structureTeamData(awayTeamGames, "away");
#
      # zdruzeno v vrstico
#
      structuredGameData <- c(structuredHomeTeamData, structuredAwayTeamData);</pre>
#
      # dodamo nove atribute
#
      structuredGameData$homeWins <- pastWinLoseRatio(qame$homeAbbr, qame$qmDate, md);</pre>
#
      structuredGameData$awayWins <- pastWinLoseRatio(qame$awayAbbr, qame$qmDate, md);</pre>
#
      structuredGameData\$pastMatchesScoreDifference <- pastMatchesScoreDifference(game\$homeAbbr, game\$abstructuredGameData\$pastMatchesScoreDifference)
      structured {\it GameData\$isHomeWinner} <- game\$homePTS > game\$awayPTS;
#
      structuredGameData$scoreDifference <- game$homePTS - game$awayPTS;</pre>
```

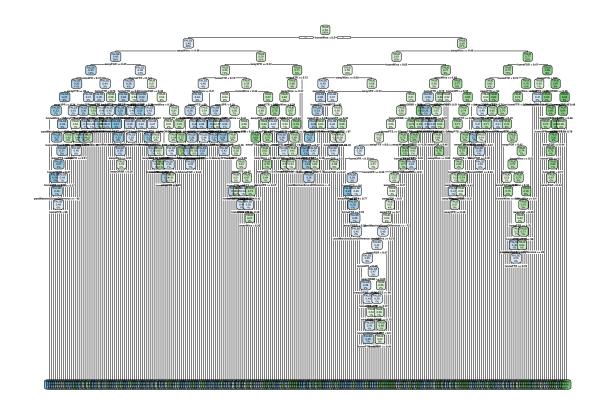
```
structuredData <- rbind(structuredData, structuredGameData);</pre>
# }
# # <DEBUG>
structuredData <- read.csv("myfile.csv");</pre>
# # </DEBUG>
# ocenjevanje atributov
sort(attrEval(isHomeWinner ~ . - scoreDifference, structuredData, "GainRatio"), decreasing = TRUE)
## Changing dependent variable to factor with levels: FALSE TRUE
## Warning in attrEval(isHomeWinner ~ . - scoreDifference, structuredData, :
## Possibly this is an error caused by regression formula and classification
## attribute estimator or vice versa.
              scoreDifference
##
                                                 awayORBR
##
                   1.00000000
                                               0.10356766
##
                     awayDRBR
                                                  awayPTS
##
                   0.10356766
                                               0.10017087
##
                      homeFGR pastMatchesScoreDifference
##
                   0.09574844
                                               0.09574844
##
                      homePTS
                                                  homeFTR
##
                   0.06453110
                                               0.06283364
##
                      home3PR
                                                  awayFTR
                   0.06077401
                                              0.05809203
##
##
                    homeORBR
                                                homeDRBR
                   0.03738373
                                               0.03738373
##
##
                     awayWins
                                                homeWins
##
                   0.03738373
                                               0.03132059
##
                      home2PR
                                                  away3PR
##
                   0.02334045
                                               0.02191597
##
                      awayFGR
                                                  away2PR
##
                   0.02108430
                                               0.01807756
sort(attrEval(isHomeWinner ~ . - scoreDifference, structuredData, "Gini"), decreasing = TRUE)
## Changing dependent variable to factor with levels: FALSE TRUE
## Warning in attrEval(isHomeWinner ~ . - scoreDifference, structuredData, :
## Possibly this is an error caused by regression formula and classification
## attribute estimator or vice versa.
##
              scoreDifference
                                                 homeWins
                  0.485277403
                                              0.018623610
##
## pastMatchesScoreDifference
                                                 awayWins
##
                  0.016977593
                                              0.012941702
##
                      awayFGR
                                                  homePTS
                  0.011464132
                                            0.010952506
##
```

```
##
                       homeFGR
                                                   home2PR
##
                  0.010810978
                                               0.009950270
                                                   away2PR
##
                       home3PR
                  0.008462446
                                               0.008449942
##
##
                       awayPTS
                                                   homeFTR
                  0.007459379
                                               0.006522074
##
                     homeORBR
                                                  homeDRBR
##
                  0.003859045
##
                                               0.003859045
##
                       away3PR
                                                  awayORBR
##
                  0.003353822
                                               0.002418816
##
                      awayDRBR
                                                   awayFTR
##
                  0.002418816
                                               0.001851150
#reliefK ni kratkoviden
sort(attrEval(isHomeWinner ~ . - scoreDifference, structuredData, "Relief"), decreasing = TRUE)
## Changing dependent variable to factor with levels: FALSE TRUE
## Warning in attrEval(isHomeWinner ~ . - scoreDifference, structuredData, :
## Possibly this is an error caused by regression formula and classification
## attribute estimator or vice versa.
##
              scoreDifference
                                                   awayPTS
                 6.742700e-01
                                              1.009046e-02
##
                       awayFTR
                                                  homeWins
##
                 7.060519e-03
                                              6.031706e-03
##
##
                       away3PR pastMatchesScoreDifference
##
                 5.689239e-03
                                              5.631994e-03
##
                       homeFTR
                                                   homePTS
##
                 5.010418e-03
                                              4.957722e-03
##
                       away2PR
                                                   home2PR
##
                 4.250628e-03
                                              4.139926e-03
##
                      awayWins
                                                   home3PR
##
                 3.275287e-03
                                              3.222844e-03
##
                      awayORBR
                                                  awayDRBR
##
                 2.603654e-03
                                              2.603654e-03
##
                       homeFGR
                                                  homeORBR
                 1.993259e-03
                                              1.653258e-03
##
##
                      homeDRBR
                                                   awayFGR
                 1.653258e-03
                                             -4.485136e-05
sort(attrEval(scoreDifference ~ . - isHomeWinner, structuredData, "MSEofMean"), decreasing = TRUE)
##
                  \verb|isHomeWinner|| pastMatchesScoreDifference|
##
                     -63.94137
                                                -173.64483
##
                     homeWins
                                                  awayWins
##
                   -173.72099
                                                -174.98545
##
                       homeFGR
                                                   homePTS
##
                   -175.09404
                                                -175.26359
##
                       home2PR
                                                   awayFGR
##
                   -175.61958
                                                -175.63615
                                                   home3PR
##
                       away2PR
```

```
##
                    -176.26168
                                                 -176.31678
##
                       awayPTS
                                                    homeFTR
                    -177.30359
                                                 -177.63028
##
                      homeORBR
                                                  homeDRBR
##
##
                    -178.46482
                                                -178.46482
##
                                                  awayDRBR
                      awayORBR
##
                    -179.13674
                                                -179.13674
##
                       awayFTR
                                                    away3PR
##
                    -179.21775
                                                 -179.23731
sort(attrEval(scoreDifference ~ . - isHomeWinner, structuredData, "RReliefFexpRank"), decreasing = TRUE
##
                  isHomeWinner
                                                    homeFGR
##
                   0.234333623
                                              -0.003021581
##
                       awayFGR
                                                    away2PR
                  -0.003190963
##
                                              -0.003682793
                       home3PR
##
                                                    home2PR
##
                  -0.003755186
                                              -0.004943084
                      awayORBR
##
                                                   awayDRBR
                                              -0.006458481
##
                  -0.006458481
                      homeORBR
                                                   homeDRBR
##
##
                  -0.007076418
                                              -0.007076418
##
                       away3PR
                                                    homePTS
                  -0.009396018
                                              -0.010237652
##
##
                       awayPTS
                                                    awayFTR
##
                  -0.010331608
                                              -0.010581415
## pastMatchesScoreDifference
                                                    homeFTR
                  -0.010863588
                                              -0.014565011
##
                      homeWins
                                                   awayWins
                  -0.018003668
##
                                               -0.018047132
structuredData$isHomeWinner <- as.factor(structuredData$isHomeWinner);</pre>
# KLASIFIKACIJA
splitData = Split70to30(structuredData);
train <- splitData[[1]];</pre>
test <- splitData[[2]];</pre>
# EVALUATION HELPERS
# odstotek pravilno klasificiranih pozitivnih primerov
Sensitivity <- function(obs, pred, pos.class)</pre>
    TP <- sum(obs == pos.class & pred == pos.class)</pre>
    FN <- sum(obs == pos.class & pred != pos.class)
    return(TP / (TP + FN))
# odstotek pravilno klasificiranih negativnih primerov
Specificity <- function(obs, pred, pos.class)</pre>
    TN <- sum(obs != pos.class & pred != pos.class)
    FP <- sum(obs != pos.class & pred == pos.class)
```

```
return(TN / (TN + FP))
}
# odstotek pravilno klasificiranih primerov, ki so bili klasificirani kot pozitivni
Precision <- function(obs, pred, pos.class)</pre>
    TP <- sum(obs == pos.class & pred == pos.class)</pre>
    FP <- sum(obs != pos.class & pred == pos.class)</pre>
    return(TP / (TP + FP))
}
CA <- function(observed, predicted)</pre>
{
    mean(observed == predicted)
brierScore <- function(observedMatrix, predictedMatrix)</pre>
    sum((observedMatrix - predictedMatrix) ^ 2) / nrow(predictedMatrix)
}
library(nnet)
obsMat <- class.ind(test$isHomeWinner)</pre>
observed <- test$isHomeWinner;</pre>
# DECISION TREE
library(rpart)
library(rpart.plot)
dt <- rpart(isHomeWinner ~ . - scoreDifference, data=train, cp=0)</pre>
rpart.plot(dt)
```

Warning: labs do not fit even at cex 0.15, there may be some overplotting




```
##
## Classification tree:
## rpart(formula = isHomeWinner ~ . - scoreDifference, data = train,
##
       cp = 0)
##
## Variables actually used in tree construction:
   [1] away2PR
                                    away3PR
    [3] awayFGR
##
                                    awayFTR
    [5] awayORBR
                                    awayPTS
##
##
   [7] awayWins
                                    home2PR
##
   [9] home3PR
                                    homeDRBR
## [11] homeFGR
                                    homeFTR
   [13] homeORBR
                                    homePTS
   [15] homeWins
                                    {\tt pastMatchesScoreDifference}
##
##
##
  Root node error: 2121/5136 = 0.41297
##
## n= 5136
##
##
              CP nsplit rel error xerror
                      0
                           1.00000 1.00000 0.016636
## 1
     0.06836398
     0.00550055
                           0.86327 0.89863 0.016323
                           0.83640 0.88590 0.016275
## 3 0.00455760
                      6
```

```
## 4 0.00400754
                           0.82273 0.88260 0.016262
## 5
     0.00377181
                     12
                           0.80905 0.87223 0.016221
## 6
     0.00330033
                           0.79397 0.86752 0.016201
                     19
## 7
      0.00306459
                           0.78171 0.87176 0.016219
## 8
     0.00282885
                     23
                           0.76945 0.88119 0.016256
## 9 0.00267170
                     26
                          0.76096 0.89109 0.016295
## 10 0.00247525
                     29
                           0.75295 0.89439 0.016307
                     33
## 11 0.00243596
                           0.74305 0.89722 0.016318
## 12 0.00235738
                     41
                           0.72183 0.89816 0.016322
                     53
## 13 0.00212164
                           0.69354 0.89958 0.016327
                           0.66337 0.90570 0.016349
## 14 0.00188590
                     74
## 15 0.00169731
                           0.64639 0.91231 0.016373
## 16 0.00165017
                     82
                           0.63083 0.91513 0.016383
                     90
                           0.61763 0.91561 0.016385
## 17 0.00153230
## 18 0.00141443
                     95
                           0.60962 0.92551 0.016419
## 19 0.00117869
                    154
                           0.51344 0.94719 0.016489
## 20 0.00094295
                    168
                           0.49505 0.96134 0.016532
                    188
## 21 0.00070721
                           0.47572 0.97595 0.016574
## 22 0.00062863
                    198
                           0.46865 0.97595 0.016574
## 23 0.00058934
                    204
                           0.46488 0.98020 0.016585
## 24 0.00047148
                    208
                          0.46252 0.98020 0.016585
## 25 0.00035361
                    235
                           0.44979 0.99859 0.016633
## 26 0.00031432
                    239
                           0.44837 1.00566 0.016650
## 27 0.00023574
                    250
                           0.43989 1.00566 0.016650
                    262
                           0.43659 1.01414 0.016670
## 28 0.00000000
```

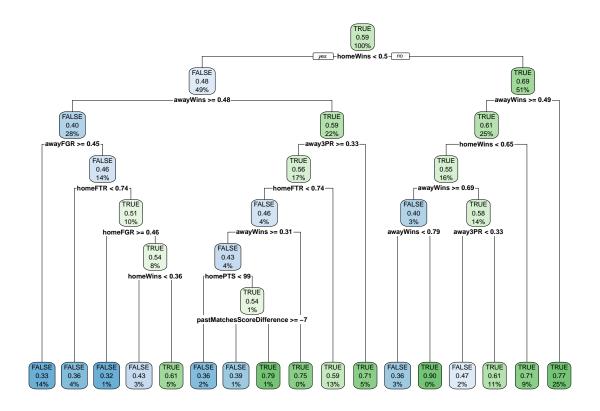
tab <- printcp(dt)

```
##
  Classification tree:
  rpart(formula = isHomeWinner ~ . - scoreDifference, data = train,
##
##
       cp = 0
##
  Variables actually used in tree construction:
    [1] away2PR
##
                                    away3PR
##
    [3] awayFGR
                                    awayFTR
    [5] awayORBR
##
                                    awayPTS
    [7] awayWins
                                    home2PR
    [9] home3PR
                                    homeDRBR
##
## [11] homeFGR
                                    homeFTR
## [13] homeORBR
                                    homePTS
## [15] homeWins
                                    pastMatchesScoreDifference
##
## Root node error: 2121/5136 = 0.41297
##
## n= 5136
##
##
              CP nsplit rel error xerror
                                               xstd
     0.06836398
                           1.00000 1.00000 0.016636
## 2
      0.00550055
                      2
                           0.86327 0.89863 0.016323
## 3
      0.00455760
                      6
                           0.83640 0.88590 0.016275
                      9
## 4
     0.00400754
                           0.82273 0.88260 0.016262
     0.00377181
                     12
                           0.80905 0.87223 0.016221
## 5
                     16
                           0.79397 0.86752 0.016201
## 6 0.00330033
```

```
## 7 0.00306459
                          0.78171 0.87176 0.016219
## 8 0.00282885
                     23
                          0.76945 0.88119 0.016256
                     26
                          0.76096 0.89109 0.016295
## 9 0.00267170
## 10 0.00247525
                     29
                          0.75295 0.89439 0.016307
## 11 0.00243596
                     33
                          0.74305 0.89722 0.016318
## 12 0.00235738
                     41
                          0.72183 0.89816 0.016322
## 13 0.00212164
                          0.69354 0.89958 0.016327
## 14 0.00188590
                     65
                          0.66337 0.90570 0.016349
## 15 0.00169731
                     74
                          0.64639 0.91231 0.016373
## 16 0.00165017
                     82
                          0.63083 0.91513 0.016383
## 17 0.00153230
                     90
                          0.61763 0.91561 0.016385
## 18 0.00141443
                     95
                          0.60962 0.92551 0.016419
## 19 0.00117869
                    154
                          0.51344 0.94719 0.016489
                    168
## 20 0.00094295
                          0.49505 0.96134 0.016532
## 21 0.00070721
                    188
                          0.47572 0.97595 0.016574
## 22 0.00062863
                    198
                          0.46865 0.97595 0.016574
## 23 0.00058934
                    204
                          0.46488 0.98020 0.016585
                    208
                          0.46252 0.98020 0.016585
## 24 0.00047148
## 25 0.00035361
                    235
                          0.44979 0.99859 0.016633
## 26 0.00031432
                    239
                          0.44837 1.00566 0.016650
## 27 0.00023574
                    250
                          0.43989 1.00566 0.016650
## 28 0.00000000
                    262
                          0.43659 1.01414 0.016670
# izberemo vrednost parametra cp, ki ustreza minimalni napaki internega presnega preverjanja
row <- which.min(tab[,"xerror"])</pre>
th <- mean(c(tab[row, "CP"], tab[row-1, "CP"]))
```

[1] 0.003536068

```
# porezemo drevo z izbrano nastavitvijo
dt <- prune(dt, cp=th)
rpart.plot(dt)</pre>
```



```
predicted <- predict(dt, test, type="class")
CA(observed, predicted)</pre>
```

[1] 0.5942753

Sensitivity(observed, predicted, "TRUE")

[1] 0.8043648

Specificity(observed, predicted, "TRUE")

[1] 0.3006536

Precision(observed, predicted, "TRUE")

[1] 0.6164875

```
predMat <- predict(dt, test, type = "prob")
brierScore(obsMat, predMat)</pre>
```

[1] 0.4859648

```
# NAIVNI BAYESOV KLASIFIKATOR
library(e1071)
nb <- naiveBayes(isHomeWinner ~ . - scoreDifference, data = train)</pre>
predicted <- predict(nb, test, type="class")</pre>
CA(observed, predicted)
## [1] 0.5906406
Sensitivity(observed, predicted, "TRUE")
## [1] 0.5767732
Specificity(observed, predicted, "TRUE")
## [1] 0.6100218
Precision(observed, predicted, "TRUE")
## [1] 0.6739526
predMat <- predict(nb, test, type = "raw")</pre>
brierScore(obsMat, predMat)
## [1] 0.6036404
# RANDOM FOREST
rf <- CoreModel(isHomeWinner ~ . - scoreDifference, data = train, model="rf")
predicted <- predict(rf, test, type="class")</pre>
CA(observed, predicted)
## [1] 1
Sensitivity(observed, predicted, "TRUE")
## [1] 1
Specificity(observed, predicted, "TRUE")
## [1] 1
Precision(observed, predicted, "TRUE")
```

[1] 1

```
predMat <- predict(rf, test, type = "prob")</pre>
brierScore(obsMat, predMat)
## [1] 0.002396177
# # REGRESIJA
# mere ocenjevanja
# srednja absolutna napaka
mae <- function(obs, pred)</pre>
{
    obs <- as.numeric(obs);</pre>
    pred <- as.numeric(pred);</pre>
    mean(abs(obs - pred))
}
# srednja kvadratna napaka
mse <- function(obs, pred)</pre>
    obs <- as.numeric(obs);</pre>
    pred <- as.numeric(pred);</pre>
    mean((obs - pred)^2)
# relativna srednja absolutna napaka (ocenjuje v primerjavi s trivialno predikcijo)
rmae <- function(obs, pred, mean.val)</pre>
    obs <- as.numeric(obs);</pre>
    pred <- as.numeric(pred);</pre>
    sum(abs(obs - pred)) / sum(abs(obs - mean.val))
}
# relativna srednja kvadratna napaka
rmse <- function(obs, pred, mean.val)</pre>
{
    obs <- as.numeric(obs);</pre>
    pred <- as.numeric(pred);</pre>
    sum((obs - pred)^2)/sum((obs - mean.val)^2)
}
splitData = Split70to30(structuredData);
train <- splitData[[1]];</pre>
test <- splitData[[2]];</pre>
# Trivialni model
meanVal <- mean(train$scoreDifference);</pre>
meanVal
```

[1] 2.709502

```
predTrivial <- rep(meanVal, nrow(test))</pre>
mae(observed, predTrivial)
## [1] 1.126585
mse(observed, predTrivial)
## [1] 1.512318
# Precno preverjanje
predicted <- vector()</pre>
for (i in 1:nrow(structuredData))
{
    # linearna regresija
   model <- lm(scoreDifference ~ . - isHomeWinner, structuredData[-i,])</pre>
   predicted[i] <- predict(model, structuredData[i,])</pre>
}
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```

```
plot(train$scoreDifference)
points(predicted, col="red")
mae(structuredData$scoreDifference, predicted)
```

[1] 10.06551

mse(structuredData\$scoreDifference, predicted)

[1] 163.0578

rmae(structuredData\$scoreDifference, predicted, mean(structuredData\$scoreDifference))

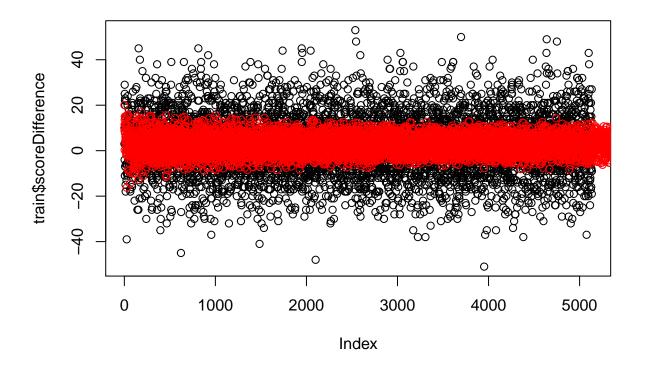
[1] 0.9369234

rmse(structuredData\$scoreDifference, predicted, mean(structuredData\$scoreDifference))

[1] 0.9031577

```
# K najbližjih sosedov
library(kknn)
```

Warning: package 'kknn' was built under R version 4.0.5



```
knn.model <- kknn(scoreDifference ~ . - isHomeWinner, train, test, k = 5)
predicted <- fitted(knn.model)
mae(test$scoreDifference, predicted)

## [1] 11.9205

rmae(test$scoreDifference, predicted, mean(train$scoreDifference))</pre>
```

[1] 1.100246