APPLIED MACHINE LEARNING FINAL PROJECT

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Data Summary

Data read from excel file

```
#install.packages("readxl")
library(readxl)
# Enter the path where the data is
df <- read_excel("01.AML_DATA_Etiketleri_Duzenlenmis.xls")
df
```

```
## # A tibble: 1,119 x 22
##    OKUL  SINIF    NO 'ADI SOYADI'    CINSIYET IKAMET ORTALAMA 'Anne veya bab~'
##    <chr> <chr> <dbl> <chr>              <dbl>  <dbl>    <dbl>            <dbl>
##  1 OAL   9-A     124 Almıla Gökçe Kes~      0      1     86.8                0
##  2 OAL   9-A     125 Alperen Sarı           1      1     61.1                0
##  3 OAL   9-A     126 Aral Bora Ceyhan       1      1     70.7                0
##  4 OAL   9-A     127 Arda Acar              1      1     78.4                1
##  5 OAL   9-A     128 Ata Dağdelen           1      1     58.4                1
##  6 OAL   9-A     129 Ayşegül Çetin          0      1     74.9                0
##  7 OAL   9-A     130 Ayşenur Şık            0      1     66.3                1
##  8 OAL   9-A     131 Buse Hekim             0      0     74.3                1
##  9 OAL   9-A     132 Buse Doğan             0      0     66.4                0
## 10 OAL   9-A     133 Meryem Göksu Gün~      0      1     83.2                0
## # ... with 1,109 more rows, and 14 more variables:
## #   'Anne en fazla ilkokul mezunu mu?' <dbl>,
## #   'Baba en fazla ilkokul mezunu mu?' <dbl>, 'Öğrenci tek çocuk mu?' <dbl>,
## #   'Öğrenci 3 ve üstü kardeş mi?' <dbl>, 'Anne ve baba boşanmış mı?' <dbl>,
## #   'Anne ve babası ayrı mı?' <dbl>, 'Öğrenci anne ile mi yaşıyor?' <dbl>,
## #   'Öğrenci baba ile mi yaşıyor?' <dbl>, 'Anne hayatta değil' <dbl>,
## #   'Baba hayatta değil' <dbl>, 'Anne ve babası hayatta olmayan' <dbl>, ...
```

```
names(df)
```

```
## [1] "OKUL"
## [2] "SINIF"
## [3] "NO"
## [4] "ADI SOYADI"
## [5] "CINSIYET"
```

```
##  [6] "IKAMET"
##  [7] "ORTALAMA"
##  [8] "Anne veya baba en fazla ilkokul mezunu mu?"
##  [9] "Anne en fazla ilkokul mezunu mu?"
## [10] "Baba en fazla ilkokul mezunu mu?"
## [11] "Öğrenci tek çocuk mu?"
## [12] "Öğrenci 3 ve üstü kardeş mi?"
## [13] "Anne ve baba boşanmış mı?"
## [14] "Anne ve babası ayrı mı?"
## [15] "Öğrenci anne ile mi yaşıyor?"
## [16] "Öğrenci baba ile mi yaşıyor?"
## [17] "Anne hayatta değil"
## [18] "Baba hayatta değil"
## [19] "Anne ve babası hayatta olmayan"
## [20] "Dede/Nene ile Yaşayan"
## [21] "Ailesinde süreğen hastalığı olan"
## [22] "Öğrencide Süreğen hastalık var mı?"
```

```r
summary(df$ORTALAMA)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    0.00   42.52   57.51   57.61   73.18   99.03
```

```r
#install.packages("dplyr")
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
```

```r
# Okul
# Ortaca Anadolu Lisesi (oal) student count
nrow(filter(df, OKUL == "OAL"))
```

```
## [1] 451
```

```r
# Yunus Emre Anadolu Lisesi (yeal) student count
nrow(filter(df, OKUL == "YEAL"))
```

```
## [1] 668
```

```r
# Class
library(data.table)
```

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

## The following objects are masked from 'package:dplyr':
##
##     between, first, last
```

```r
#df1$SINIF
dt9 <- data.table(df)[SINIF %like% "9"]
dt10 <- data.table(df)[SINIF %like% "10"]
dt11 <- data.table(df)[SINIF %like% "11"]
dt12 <- data.table(df)[SINIF %like% "12"]
# 9. grade count
nrow(dt9)
```

```
## [1] 271
```

```r
# 10. grade count
nrow(dt10)
```

```
## [1] 375
```

```r
# 11. grade count
nrow(dt11)
```

```
## [1] 270
```

```r
# 12. grade count
nrow(dt12)
```

```
## [1] 203
```

```r
# Sex
# boy
nrow(filter(df, CINSIYET == 1))
```

```
## [1] 448
```

```r
# girl
nrow(filter(df, CINSIYET == 0))
```

```
## [1] 671
```

```r
# From
# City Center
nrow(filter(df, IKAMET == 1))
```

```
## [1] 609
```

```
# Village
nrow(filter(df, IKAMET == 0))
```

```
## [1] 510
```

```
# Mean
mean(df$ORTALAMA)
```

```
## [1] 57.6134
```

```
# Oal Mean
mean(filter(df, OKUL == "OAL")$ORTALAMA)
```

```
## [1] 71.70608
```

```
# Yeal Mean
mean(filter(df, OKUL == "YEAL")$ORTALAMA)
```

```
## [1] 48.09874
```

```
#Most successful student

#maxOrt <- max(df$ORTALAMA)
#maxOrtIndex <- match(maxOrt, df$ORTALAMA)
#df$ADI.SOYADI[maxOrtIndex]

df$`ADI SOYADI`[match(max(df$ORTALAMA), df$ORTALAMA)]
```

```
## [1] "Saniye Arslan"
```

```
#Bar graph showing the most elementary school graduations of Oal students' parents

oal <- filter(df, OKUL == "OAL")
oal <- oal[, (names(oal) %in% c("CINSIYET", "Anne en fazla ilkokul mezunu mu?", "Baba en fazla ilkokul m
oalErkekAnne1 <- nrow(filter(oal, CINSIYET == 1 & `Anne en fazla ilkokul mezunu mu?` == 1))
oalErkekAnne0 <- nrow(filter(oal, CINSIYET == 1 & `Anne en fazla ilkokul mezunu mu?` == 0))
oalErkekBaba1 <- nrow(filter(oal, CINSIYET == 1 & `Baba en fazla ilkokul mezunu mu?` == 1))
oalErkekBaba0 <- nrow(filter(oal, CINSIYET == 1 & `Baba en fazla ilkokul mezunu mu?` == 0))

oalKızAnne1 <- nrow(filter(oal, CINSIYET == 0 & `Anne en fazla ilkokul mezunu mu?` == 1))
oalKızAnne0 <- nrow(filter(oal, CINSIYET == 0 & `Anne en fazla ilkokul mezunu mu?` == 0))
oalKızBaba1 <- nrow(filter(oal, CINSIYET == 0 & `Baba en fazla ilkokul mezunu mu?` == 1))
oalKızBaba0 <- nrow(filter(oal, CINSIYET == 0 & `Baba en fazla ilkokul mezunu mu?` == 0))

xlab <- c("Mother graduated", "not", "Father graduated", "not")
ylab <- c(oalErkekAnne1, oalErkekAnne0, oalErkekBaba1, oalErkekBaba0,
          oalKızAnne1, oalKızAnne0, oalKızBaba1, oalKızBaba0)

oalMatrix <- matrix(ylab, 2, 4, byrow = TRUE, dimnames = list(c("Boy", "Girl"), xlab))

barplot(oalMatrix, col = c("red", "blue"), main = "Showing The Most Elementary School Graduations of Oal
```

Queries_files/figure-latex/unnamed-chunk-16-1.pdf

```r
#Bar graph showing the most elementary school graduations of Yeal students' parents

yeal <- filter(df, OKUL == "YEAL")
yeal <- yeal[, (names(yeal) %in% c("CINSIYET", "Anne en fazla ilkokul mezunu mu?", "Baba en fazla ilkoku
yealErkekAnne1 <- nrow(filter(yeal, CINSIYET == 1 & `Anne en fazla ilkokul mezunu mu?` == 1))
yealErkekAnne0 <- nrow(filter(yeal, CINSIYET == 1 & `Anne en fazla ilkokul mezunu mu?` == 0))
yealErkekBaba1 <- nrow(filter(oal, CINSIYET == 1 & `Baba en fazla ilkokul mezunu mu?` == 1))
yealErkekBaba0 <- nrow(filter(oal, CINSIYET == 1 & `Baba en fazla ilkokul mezunu mu?` == 0))

yealKızAnne1 <- nrow(filter(oal, CINSIYET == 0 & `Anne en fazla ilkokul mezunu mu?` == 1))
yealKızAnne0 <- nrow(filter(oal, CINSIYET == 0 & `Anne en fazla ilkokul mezunu mu?` == 0))
yealKızBaba1 <- nrow(filter(oal, CINSIYET == 0 & `Baba en fazla ilkokul mezunu mu?` == 1))
yealKızBaba0 <- nrow(filter(oal, CINSIYET == 0 & `Baba en fazla ilkokul mezunu mu?` == 0))

ylabYeal <- c(yealErkekAnne1, yealErkekAnne0, yealErkekBaba1, yealErkekBaba0,
              yealKızAnne1, yealKızAnne0, yealKızBaba1, yealKızBaba0)

yealMatrix <- matrix(ylabYeal, 2, 4, byrow = TRUE, dimnames = list(c("Boy", "Girl"), xlab))

barplot(yealMatrix, col = c("red", "blue"), main = "Showing The Most Elementary School Graduations of Y
```

Queries_files/figure-latex/unnamed-chunk-17-1.pdf

BOX PLOT

```r
#qqplots
qqnorm(df$ORTALAMA, pch = 1, frame = FALSE,xlab = "ORTALAMA" )
```

Queries_files/figure-latex/unnamed-chunk-18-1.pdf

```r
#qqline(dFile$ORTALAMA, col = "steelblue", lwd = 2)

#boxplots
boxplot(df$ORTALAMA)
```

```
Queries_files/figure-latex/unnamed-chunk-18-2.pdf
```

```
#Calculate successful students

#df$ORTALAMA
ort <- mean(df$ORTALAMA)
#ort
df <- transform(df, Başarılı.Mı= ifelse(ort >= ORTALAMA, 0, 1))
data.frame(df$ORTALAMA,df$Başarılı.Mı)
```

```
##       df.ORTALAMA df.Başarılı.Mı
## 1          86.84              1
## 2          61.14              1
## 3          70.73              1
## 4          78.43              1
## 5          58.35              1
## 6          74.86              1
## 7          66.32              1
## 8          74.32              1
## 9          66.35              1
## 10         83.22              1
## 11         73.03              1
## 12         76.08              1
## 13         81.81              1
## 14         66.08              1
## 15         69.81              1
## 16         55.57              0
## 17         54.76              0
## 18         60.35              1
## 19         70.14              1
## 20         57.49              0
## 21         64.14              1
## 22         62.65              1
## 23         72.59              1
## 24         73.68              1
## 25         79.35              1
## 26         63.16              1
## 27         69.38              1
## 28         68.81              1
## 29         67.65              1
## 30         73.32              1
## 31         61.51              1
## 32         57.51              0
## 33         67.35              1
## 34         80.00              1
## 35         57.16              0
## 36         60.54              1
## 37         62.38              1
## 38         60.76              1
```

```
## 39           56.32              0
## 40           78.05              1
## 41           59.55              1
## 42           78.95              1
## 43           63.11              1
## 44           71.32              1
## 45           76.51              1
## 46           66.16              1
## 47           62.35              1
## 48           63.76              1
## 49           62.86              1
## 50           59.62              1
## 51           55.43              0
## 52           79.00              1
## 53           66.44              1
## 54           65.11              1
## 55           74.68              1
## 56           67.46              1
## 57           55.86              0
## 58           71.03              1
## 59           74.27              1
## 60           73.46              1
## 61           65.46              1
## 62           70.32              1
## 63           76.92              1
## 64           69.43              1
## 65           80.30              1
## 66           69.54              1
## 67           59.49              1
## 68           54.24              0
## 69           61.78              1
## 70           69.65              1
## 71           85.22              1
## 72           64.03              1
## 73           84.30              1
## 74           66.62              1
## 75           67.14              1
## 76           82.32              1
## 77           68.65              1
## 78           63.32              1
## 79           79.51              1
## 80           50.08              0
## 81           72.65              1
## 82           91.54              1
## 83           69.22              1
## 84           75.49              1
## 85           52.14              0
## 86           63.05              1
## 87           80.65              1
## 88           68.18              1
## 89           73.76              1
## 90           64.70              1
## 91           80.65              1
## 92           80.14              1
```

```
## 93            91.46                 1
## 94            56.27                 0
## 95            63.03                 1
## 96            58.19                 1
## 97            68.00                 1
## 98            66.95                 1
## 99            58.22                 1
## 100           51.64                 0
## 101           75.27                 1
## 102           75.46                 1
## 103           61.29                 1
## 104           78.00                 1
## 105           92.44                 1
## 106           60.94                 1
## 107           64.76                 1
## 108           82.94                 1
## 109           80.88                 1
## 110           64.18                 1
## 111           93.65                 1
## 112           86.38                 1
## 113           53.06                 0
## 114           65.00                 1
## 115           67.56                 1
## 116           82.79                 1
## 117           69.89                 1
## 118           68.25                 1
## 119           81.32                 1
## 120           60.31                 1
## 121           74.24                 1
## 122           76.06                 1
## 123           90.56                 1
## 124           85.87                 1
## 125           85.88                 1
## 126           88.06                 1
## 127           93.00                 1
## 128           81.00                 1
## 129           96.00                 1
## 130           73.75                 1
## 131           81.47                 1
## 132           72.73                 1
## 133           85.19                 1
## 134           78.47                 1
## 135           80.88                 1
## 136           82.35                 1
## 137           69.71                 1
## 138           84.79                 1
## 139           90.00                 1
## 140           89.25                 1
## 141           81.48                 1
## 142           88.19                 1
## 143           89.28                 1
## 144           68.56                 1
## 145           79.56                 1
## 146           81.64                 1
```

```
## 147        58.21                1
## 148        86.38                1
## 149        88.74                1
## 150        79.02                1
## 151        85.16                1
## 152        86.58                1
## 153        67.21                1
## 154        80.21                1
## 155        88.41                1
## 156        84.42                1
## 157        88.75                1
## 158        79.09                1
## 159        88.68                1
## 160        97.24                1
## 161        83.50                1
## 162        81.79                1
## 163        87.84                1
## 164        67.58                1
## 165        83.94                1
## 166        85.25                1
## 167        95.56                1
## 168        92.57                1
## 169        79.84                1
## 170        70.25                1
## 171        50.07                0
## 172        90.45                1
## 173        76.21                1
## 174        77.29                1
## 175        91.82                1
## 176        61.24                1
## 177        92.72                1
## 178        88.56                1
## 179        98.29                1
## 180        67.94                1
## 181        81.95                1
## 182        87.13                1
## 183        87.95                1
## 184        86.71                1
## 185        81.30                1
## 186        70.88                1
## 187        91.12                1
## 188        75.44                1
## 189        81.66                1
## 190        72.52                1
## 191        82.47                1
## 192        97.56                1
## 193        93.61                1
## 194        61.29                1
## 195        71.08                1
## 196        78.53                1
## 197        87.52                1
## 198        90.26                1
## 199        87.85                1
## 200        92.58                1
```

```
## 201            90.69                  1
## 202            90.46                  1
## 203            70.91                  1
## 204            79.21                  1
## 205            88.07                  1
## 206            90.85                  1
## 207            93.75                  1
## 208            77.86                  1
## 209            88.50                  1
## 210            80.39                  1
## 211            91.34                  1
## 212            95.63                  1
## 213            76.36                  1
## 214            95.38                  1
## 215            97.13                  1
## 216            68.57                  1
## 217            91.56                  1
## 218            95.50                  1
## 219            92.06                  1
## 220            96.69                  1
## 221            89.39                  1
## 222            82.38                  1
## 223            94.21                  1
## 224            86.16                  1
## 225            99.03                  1
## 226            93.44                  1
## 227            93.94                  1
## 228            66.94                  1
## 229            50.03                  0
## 230            81.79                  1
## 231            69.67                  1
## 232            75.06                  1
## 233            74.56                  1
## 234            90.67                  1
## 235            87.59                  1
## 236            79.21                  1
## 237            94.91                  1
## 238            75.00                  1
## 239            74.43                  1
## 240            82.21                  1
## 241            85.56                  1
## 242            89.50                  1
## 243            71.00                  1
## 244            82.85                  1
## 245            78.59                  1
## 246            60.05                  1
## 247            54.54                  0
## 248            62.70                  1
## 249            83.57                  1
## 250            92.92                  1
## 251            42.66                  0
## 252            84.68                  1
## 253            66.43                  1
## 254            64.08                  1
```

```
## 255          50.97               0
## 256          63.91               1
## 257          44.00               0
## 258          47.65               0
## 259          93.03               1
## 260          58.03               1
## 261          79.78               1
## 262          92.08               1
## 263          71.51               1
## 264          44.24               0
## 265          82.43               1
## 266          54.62               0
## 267          48.08               0
## 268          75.37               1
## 269          72.95               1
## 270          80.91               1
## 271          67.40               1
## 272          52.24               0
## 273          61.03               1
## 274          79.29               1
## 275          82.68               1
## 276          44.81               0
## 277          60.91               1
## 278          87.11               1
## 279          49.54               0
## 280          70.35               1
## 281          52.92               0
## 282          51.92               0
## 283          54.81               0
## 284          84.46               1
## 285          66.70               1
## 286          44.27               0
## 287          73.46               1
## 288          71.65               1
## 289          63.97               1
## 290          51.81               0
## 291          78.26               1
## 292          31.74               0
## 293          60.05               1
## 294          78.86               1
## 295          63.41               1
## 296          59.29               1
## 297          63.35               1
## 298          57.63               1
## 299          54.76               0
## 300          80.89               1
## 301          64.40               1
## 302          57.22               0
## 303          64.83               1
## 304          68.73               1
## 305          51.92               0
## 306          87.31               1
## 307          69.70               1
## 308          72.91               1
```

```
## 309            90.66              1
## 310            58.86              1
## 311            88.29              1
## 312            80.43              1
## 313            79.11              1
## 314            54.39              0
## 315            84.64              1
## 316            87.74              1
## 317            67.62              1
## 318            65.19              1
## 319            82.95              1
## 320            65.29              1
## 321            56.81              0
## 322            85.86              1
## 323            73.14              1
## 324            81.44              1
## 325            93.68              1
## 326            80.34              1
## 327            80.89              1
## 328            84.30              1
## 329            81.35              1
## 330            50.65              0
## 331            48.46              0
## 332            65.38              1
## 333            53.89              0
## 334            91.63              1
## 335            75.73              1
## 336            92.35              1
## 337            45.57              0
## 338            48.78              0
## 339            48.27              0
## 340            76.86              1
## 341            91.49              1
## 342            92.74              1
## 343            47.51              0
## 344            52.70              0
## 345            69.59              1
## 346            73.19              1
## 347            76.73              1
## 348            75.22              1
## 349            55.65              0
## 350            60.22              1
## 351            60.14              1
## 352            78.62              1
## 353            60.19              1
## 354            64.81              1
## 355            43.32              0
## 356            65.32              1
## 357            56.05              0
## 358            67.14              1
## 359            88.70              1
## 360            76.51              1
## 361            64.78              1
## 362            65.44              1
```

```
## 363          69.27                    1
## 364          39.65                    0
## 365          74.24                    1
## 366          84.89                    1
## 367          83.24                    1
## 368          33.78                    0
## 369          83.81                    1
## 370          79.14                    1
## 371          55.86                    0
## 372          49.59                    0
## 373          32.49                    0
## 374          85.46                    1
## 375          46.92                    0
## 376          54.35                    0
## 377          76.54                    1
## 378          74.16                    1
## 379          67.14                    1
## 380          62.14                    1
## 381          74.65                    1
## 382          82.65                    1
## 383          91.43                    1
## 384          82.70                    1
## 385          66.68                    1
## 386          78.97                    1
## 387          77.59                    1
## 388          67.97                    1
## 389          54.59                    0
## 390          84.95                    1
## 391          54.68                    0
## 392          57.03                    0
## 393          75.27                    1
## 394          59.15                    1
## 395          81.35                    1
## 396          88.68                    1
## 397          34.92                    0
## 398          73.95                    1
## 399          57.08                    0
## 400          74.76                    1
## 401          83.16                    1
## 402          71.30                    1
## 403          31.65                    0
## 404          43.86                    0
## 405          67.27                    1
## 406          61.51                    1
## 407          51.51                    0
## 408          56.16                    0
## 409          38.11                    0
## 410          46.19                    0
## 411          73.68                    1
## 412          85.84                    1
## 413          79.14                    1
## 414          62.60                    1
## 415          58.61                    1
## 416          46.05                    0
```

```
## 417         48.00               0
## 418         51.49               0
## 419         58.89               1
## 420         76.97               1
## 421         87.03               1
## 422         79.05               1
## 423         62.62               1
## 424         55.51               0
## 425         65.16               1
## 426         73.92               1
## 427         66.22               1
## 428         74.35               1
## 429         38.08               0
## 430         76.65               1
## 431         46.40               0
## 432         84.51               1
## 433         72.32               1
## 434         77.54               1
## 435         80.00               1
## 436         88.08               1
## 437         42.59               0
## 438         44.22               0
## 439         71.85               1
## 440         54.68               0
## 441         55.05               0
## 442         69.49               1
## 443         83.76               1
## 444         58.70               1
## 445         58.86               1
## 446         45.73               0
## 447         60.97               1
## 448         37.30               0
## 449         48.24               0
## 450         46.46               0
## 451         61.24               1
## 452         73.41               1
## 453         46.32               0
## 454         52.13               0
## 455         51.62               0
## 456         52.09               0
## 457         39.76               0
## 458         22.28               0
## 459         43.97               0
## 460         20.91               0
## 461         33.97               0
## 462          3.24               0
## 463         54.38               0
## 464         46.73               0
## 465         50.16               0
## 466         30.26               0
## 467         27.14               0
## 468         85.64               1
## 469         59.27               1
## 470         50.26               0
```

```
## 471      27.86           0
## 472      34.65           0
## 473      72.22           1
## 474      54.73           0
## 475      57.10           0
## 476      65.61           1
## 477      72.46           1
## 478      64.47           1
## 479      62.90           1
## 480      60.32           1
## 481      73.70           1
## 482      41.86           0
## 483      54.46           0
## 484      35.38           0
## 485      58.48           1
## 486      85.49           1
## 487      41.32           0
## 488      63.94           1
## 489      57.84           1
## 490      47.03           0
## 491      77.12           1
## 492      42.65           0
## 493      51.97           0
## 494      62.78           1
## 495      68.24           1
## 496      57.70           1
## 497      82.39           1
## 498      75.88           1
## 499      71.54           1
## 500      50.74           0
## 501      28.59           0
## 502      65.14           1
## 503      55.46           0
## 504      80.70           1
## 505      56.35           0
## 506      31.41           0
## 507      74.27           1
## 508      37.41           0
## 509      60.91           1
## 510      41.89           0
## 511      64.05           1
## 512      61.57           1
## 513      52.89           0
## 514      49.41           0
## 515      56.76           0
## 516      64.71           1
## 517      76.58           1
## 518      63.89           1
## 519      36.81           0
## 520      60.83           1
## 521      54.19           0
## 522      33.68           0
## 523      59.94           1
## 524      46.68           0
```

```
## 525            54.73              0
## 526            64.26              1
## 527            89.03              1
## 528            79.19              1
## 529            63.52              1
## 530            38.42              0
## 531            45.19              0
## 532            67.06              1
## 533            91.21              1
## 534            37.69              0
## 535            61.41              1
## 536            68.46              1
## 537            63.95              1
## 538            76.27              1
## 539            61.89              1
## 540            52.54              0
## 541            61.53              1
## 542            29.69              0
## 543            91.70              1
## 544            46.78              0
## 545            49.62              0
## 546            54.71              0
## 547            74.70              1
## 548            46.35              0
## 549            67.10              1
## 550            23.40              0
## 551            71.27              1
## 552            70.32              1
## 553            68.16              1
## 554            30.97              0
## 555            28.69              0
## 556            52.43              0
## 557            40.84              0
## 558            64.13              1
## 559            71.03              1
## 560            35.65              0
## 561            50.65              0
## 562            49.76              0
## 563            52.35              0
## 564            64.48              1
## 565            63.45              1
## 566            47.48              0
## 567            51.95              0
## 568            63.49              1
## 569            73.54              1
## 570            56.57              0
## 571            77.97              1
## 572            51.43              0
## 573            32.57              0
## 574            45.54              0
## 575            46.43              0
## 576            35.11              0
## 577            35.40              0
## 578            77.30              1
```

```
## 579           49.19              0
## 580           45.14              0
## 581           48.06              0
## 582           36.97              0
## 583           50.22              0
## 584           54.77              0
## 585           72.69              1
## 586           45.14              0
## 587           70.79              1
## 588           28.71              0
## 589           25.71              0
## 590           56.15              0
## 591           67.33              1
## 592           56.03              0
## 593           49.91              0
## 594           48.95              0
## 595           67.55              1
## 596           65.42              1
## 597           33.15              0
## 598           54.61              0
## 599           30.14              0
## 600           59.85              1
## 601           74.92              1
## 602           77.03              1
## 603           53.87              0
## 604           49.35              0
## 605           72.16              1
## 606           61.86              1
## 607           57.61              0
## 608           55.65              0
## 609           45.62              0
## 610           46.03              0
## 611           72.97              1
## 612           78.30              1
## 613           72.30              1
## 614           67.62              1
## 615           61.69              1
## 616           44.48              0
## 617           48.08              0
## 618           84.84              1
## 619           85.00              1
## 620           56.07              0
## 621           41.30              0
## 622           43.24              0
## 623           38.36              0
## 624           36.68              0
## 625           35.87              0
## 626           32.61              0
## 627           54.31              0
## 628           40.62              0
## 629           42.09              0
## 630           48.91              0
## 631           53.72              0
## 632           43.05              0
```

```
## 633        34.11                0
## 634        44.63                0
## 635        31.20                0
## 636        41.74                0
## 637        48.57                0
## 638        45.81                0
## 639        36.32                0
## 640        23.04                0
## 641        50.24                0
## 642         4.14                0
## 643        28.62                0
## 644        48.66                0
## 645        80.46                1
## 646        44.03                0
## 647        74.89                1
## 648        34.80                0
## 649        54.82                0
## 650        27.20                0
## 651        39.62                0
## 652        54.33                0
## 653        40.51                0
## 654        51.14                0
## 655        68.89                1
## 656        64.49                1
## 657        50.94                0
## 658        66.80                1
## 659        39.00                0
## 660        64.51                1
## 661        47.74                0
## 662        62.00                1
## 663        56.97                0
## 664        95.66                1
## 665        77.46                1
## 666        37.37                0
## 667        69.86                1
## 668        35.00                0
## 669        47.01                0
## 670        51.34                0
## 671        53.09                0
## 672        54.40                0
## 673        65.49                1
## 674        62.74                1
## 675        75.03                1
## 676        46.26                0
## 677        44.60                0
## 678        54.40                0
## 679        46.49                0
## 680        36.97                0
## 681        58.00                1
## 682        40.69                0
## 683        55.66                0
## 684        30.93                0
## 685        59.23                1
## 686        69.83                1
```

```
## 687             66.71                   1
## 688             63.66                   1
## 689             54.06                   0
## 690             56.89                   0
## 691             56.03                   0
## 692             34.14                   0
## 693             67.20                   1
## 694             58.89                   1
## 695             62.66                   1
## 696             61.03                   1
## 697             52.31                   0
## 698             78.86                   1
## 699             33.34                   0
## 700             53.11                   0
## 701             52.00                   0
## 702             58.34                   1
## 703             64.51                   1
## 704             56.46                   0
## 705             57.86                   1
## 706             37.40                   0
## 707             42.60                   0
## 708             37.26                   0
## 709             57.78                   1
## 710             69.74                   1
## 711             35.69                   0
## 712              0.00                   0
## 713             89.27                   1
## 714             61.14                   1
## 715             34.86                   0
## 716             37.00                   0
## 717             68.77                   1
## 718             76.91                   1
## 719             26.89                   0
## 720             69.57                   1
## 721             35.17                   0
## 722             36.43                   0
## 723             24.24                   0
## 724             72.83                   1
## 725             39.11                   0
## 726             34.63                   0
## 727             22.07                   0
## 728             46.91                   0
## 729             36.97                   0
## 730             38.34                   0
## 731             30.77                   0
## 732             61.46                   1
## 733             43.60                   0
## 734             32.94                   0
## 735             36.11                   0
## 736             38.20                   0
## 737             81.69                   1
## 738             36.46                   0
## 739             33.94                   0
## 740             22.00                   0
```

```
## 741       57.91                1
## 742       42.23                0
## 743       40.32                0
## 744       38.23                0
## 745       34.34                0
## 746       58.40                1
## 747       72.91                1
## 748       48.17                0
## 749       44.51                0
## 750       36.94                0
## 751       45.40                0
## 752       48.54                0
## 753       46.97                0
## 754       32.43                0
## 755       34.17                0
## 756       67.66                1
## 757       55.00                0
## 758       33.11                0
## 759       49.09                0
## 760       48.54                0
## 761       48.94                0
## 762       41.30                0
## 763       43.57                0
## 764       42.06                0
## 765       33.49                0
## 766       41.83                0
## 767       44.77                0
## 768       29.51                0
## 769       43.46                0
## 770       22.85                0
## 771       58.06                1
## 772       32.00                0
## 773       50.29                0
## 774       30.80                0
## 775       23.25                0
## 776       61.21                1
## 777       38.45                0
## 778       32.57                0
## 779       50.31                0
## 780        4.14                0
## 781       35.69                0
## 782       53.89                0
## 783       46.34                0
## 784       43.64                0
## 785       25.66                0
## 786       27.49                0
## 787       34.06                0
## 788       62.97                1
## 789       30.71                0
## 790       43.34                0
## 791       41.29                0
## 792       41.40                0
## 793       43.97                0
## 794       51.49                0
```

```
## 795        37.93              0
## 796        33.91              0
## 797        58.49              1
## 798        34.89              0
## 799        41.97              0
## 800        78.20              1
## 801        38.00              0
## 802        61.91              1
## 803        49.97              0
## 804        55.03              0
## 805        50.00              0
## 806        67.40              1
## 807        47.74              0
## 808        31.17              0
## 809        44.63              0
## 810        27.31              0
## 811        35.86              0
## 812        52.38              0
## 813        47.77              0
## 814        37.82              0
## 815        42.80              0
## 816        51.83              0
## 817        32.45              0
## 818        68.43              1
## 819        38.26              0
## 820        34.91              0
## 821        28.26              0
## 822        21.90              0
## 823        25.60              0
## 824        39.77              0
## 825        78.66              1
## 826        61.49              1
## 827        25.83              0
## 828        52.23              0
## 829        28.62              0
## 830        77.09              1
## 831        29.39              0
## 832        71.34              1
## 833        42.23              0
## 834        33.89              0
## 835        78.46              1
## 836        36.03              0
## 837        44.93              0
## 838        24.00              0
## 839        33.17              0
## 840        54.80              0
## 841        39.29              0
## 842        42.00              0
## 843        38.54              0
## 844        34.06              0
## 845        43.11              0
## 846        37.51              0
## 847        42.29              0
## 848        66.86              1
```

```
## 849        68.40            1
## 850        40.70            0
## 851        50.40            0
## 852        44.66            0
## 853        43.97            0
## 854        49.97            0
## 855        50.63            0
## 856        49.80            0
## 857        48.74            0
## 858        70.00            1
## 859        55.26            0
## 860        41.66            0
## 861        33.60            0
## 862        54.80            0
## 863        57.80            1
## 864        28.13            0
## 865        39.97            0
## 866        41.86            0
## 867        23.74            0
## 868        27.77            0
## 869        54.31            0
## 870        74.14            1
## 871        26.20            0
## 872        59.19            1
## 873        29.46            0
## 874        27.11            0
## 875        22.81            0
## 876        26.03            0
## 877        33.97            0
## 878        21.68            0
## 879        49.80            0
## 880        55.37            0
## 881        28.86            0
## 882        31.89            0
## 883        37.30            0
## 884        50.37            0
## 885        71.29            1
## 886        22.54            0
## 887        25.41            0
## 888        50.91            0
## 889        26.62            0
## 890        32.47            0
## 891        20.65            0
## 892        31.46            0
## 893        34.51            0
## 894        29.83            0
## 895        55.22            0
## 896        33.84            0
## 897        71.00            1
## 898        61.09            1
## 899        31.73            0
## 900        32.00            0
## 901        48.69            0
## 902        78.80            1
```

```
## 903       35.92            0
## 904       24.46            0
## 905       40.57            0
## 906       43.03            0
## 907       51.14            0
## 908        0.00            0
## 909       61.14            1
## 910       44.16            0
## 911       59.78            1
## 912       48.07            0
## 913        0.00            0
## 914       37.86            0
## 915       34.64            0
## 916       33.77            0
## 917        3.86            0
## 918       19.13            0
## 919       27.34            0
## 920       59.06            1
## 921       38.08            0
## 922       27.53            0
## 923       34.27            0
## 924       50.76            0
## 925       32.74            0
## 926       57.00            0
## 927       49.22            0
## 928       48.03            0
## 929       66.03            1
## 930       39.66            0
## 931       35.86            0
## 932       52.37            0
## 933       32.94            0
## 934       54.97            0
## 935       14.97            0
## 936       62.91            1
## 937       25.40            0
## 938       63.06            1
## 939       45.97            0
## 940       69.81            1
## 941       48.36            0
## 942       40.62            0
## 943       22.50            0
## 944       48.60            0
## 945       78.73            1
## 946       58.57            1
## 947       37.20            0
## 948       43.77            0
## 949       52.35            0
## 950       49.49            0
## 951       55.71            0
## 952       22.49            0
## 953       59.31            1
## 954       41.77            0
## 955       50.97            0
## 956       54.80            0
```

```
## 957     84.32      1
## 958     56.66      0
## 959     62.37      1
## 960     48.31      0
## 961     41.74      0
## 962     47.26      0
## 963     42.46      0
## 964     49.37      0
## 965     58.06      1
## 966     30.81      0
## 967     39.06      0
## 968     34.92      0
## 969     20.00      0
## 970     50.77      0
## 971     45.09      0
## 972     30.66      0
## 973     16.00      0
## 974     49.60      0
## 975     56.26      0
## 976     39.00      0
## 977     38.83      0
## 978     33.91      0
## 979     32.71      0
## 980     39.46      0
## 981     29.29      0
## 982     44.34      0
## 983     38.59      0
## 984     55.51      0
## 985     57.86      1
## 986     27.23      0
## 987     36.29      0
## 988     35.03      0
## 989     41.60      0
## 990     25.57      0
## 991     70.03      1
## 992     52.66      0
## 993     57.14      0
## 994     65.54      1
## 995     69.83      1
## 996     61.86      1
## 997     31.37      0
## 998     32.66      0
## 999     44.63      0
## 1000    47.06      0
## 1001    41.09      0
## 1002    37.51      0
## 1003    45.71      0
## 1004    55.49      0
## 1005    53.83      0
## 1006    45.11      0
## 1007    27.37      0
## 1008    37.20      0
## 1009    43.83      0
## 1010    24.57      0
```

```
## 1011      30.43                0
## 1012      29.66                0
## 1013      32.74                0
## 1014      30.94                0
## 1015      26.49                0
## 1016      30.00                0
## 1017      51.63                0
## 1018      21.86                0
## 1019      35.00                0
## 1020      19.25                0
## 1021      47.03                0
## 1022      30.97                0
## 1023      17.62                0
## 1024      47.71                0
## 1025      68.54                1
## 1026      41.03                0
## 1027      44.89                0
## 1028      56.14                0
## 1029      26.37                0
## 1030      45.51                0
## 1031      33.89                0
## 1032      49.74                0
## 1033      52.66                0
## 1034      37.71                0
## 1035      44.74                0
## 1036      28.31                0
## 1037      14.12                0
## 1038      33.89                0
## 1039      46.57                0
## 1040      61.40                1
## 1041      52.26                0
## 1042      32.69                0
## 1043      32.91                0
## 1044      39.54                0
## 1045      26.86                0
## 1046      95.37                1
## 1047      80.49                1
## 1048      39.97                0
## 1049      22.29                0
## 1050       0.00                0
## 1051      40.27                0
## 1052      38.57                0
## 1053      22.97                0
## 1054      23.86                0
## 1055      20.17                0
## 1056      33.94                0
## 1057      34.86                0
## 1058      28.71                0
## 1059      24.29                0
## 1060      32.57                0
## 1061      35.74                0
## 1062      38.83                0
## 1063      34.49                0
## 1064      39.34                0
```

```
## 1065       47.00           0
## 1066       27.23           0
## 1067       22.26           0
## 1068       32.29           0
## 1069       25.20           0
## 1070       20.67           0
## 1071       51.22           0
## 1072       61.25           1
## 1073       78.16           1
## 1074       77.27           1
## 1075       67.86           1
## 1076       51.89           0
## 1077       36.11           0
## 1078       72.32           1
## 1079       47.17           0
## 1080       75.11           1
## 1081       94.51           1
## 1082       64.14           1
## 1083       81.54           1
## 1084       36.56           0
## 1085       53.58           0
## 1086       44.36           0
## 1087       77.78           1
## 1088       73.17           1
## 1089       81.79           1
## 1090       73.83           1
## 1091       54.56           0
## 1092       56.31           0
## 1093       85.08           1
## 1094       80.41           1
## 1095       69.76           1
## 1096       54.16           0
## 1097       41.47           0
## 1098       57.64           1
## 1099       64.70           1
## 1100       67.58           1
## 1101       67.68           1
## 1102       69.69           1
## 1103       60.06           1
## 1104       58.46           1
## 1105       59.53           1
## 1106       56.19           0
## 1107       20.38           0
## 1108       49.69           0
## 1109       75.62           1
## 1110       41.95           0
## 1111       55.51           0
## 1112       52.92           0
## 1113       79.36           1
## 1114       53.19           0
## 1115       59.94           1
## 1116       53.14           0
## 1117       36.53           0
## 1118       70.65           1
```

```
## 1119        33.95            0
```

QUESTIONS: 1. Are students living in the village more successful than those living in the city center?

Answer 1

```
# Number of successful students (1) living in Village (0)

#df$IKAMET
#df$Başarılı.Mı
koyDf <- filter(df, IKAMET == 0)
basariliDf <- filter(df, Başarılı.Mı == 1)
koyIntersectDf <- intersect(koyDf, basariliDf)
# Intersection df

#data.frame(koyIntersectDf$IKAMET, koyIntersectDf$Başarılı.Mı)

koyBasariliSayisi <- nrow(koyIntersectDf)

# Number of successful students (1) living in the center (1)
merkezDf <- filter(df, IKAMET == 1)
merkezIntersectDf <- intersect(merkezDf, basariliDf)
# Intersection df

#data.frame(merkezIntersectDf$IKAMET, merkezIntersectDf$Başarılı.Mı)

merkezBasariliSayisi <- nrow(merkezIntersectDf)

if (koyBasariliSayisi > merkezBasariliSayisi) {
  print("Students living in the village are more successful.")
} else {
  print("Students living in the city center are more successful.")
}
```

```
## [1] "Students living in the city center are more successful."
```

2. Are girls or boys most negatively affected by the separation of parents ?

Answer 2

```
#df$Anne.ve.babası.ayrı.mı.

#Mother and Father separate (1) number of girls (0) and unsuccessful (0) students

#df$CINSIYET
#df$Başarılı.Mı
anneVeBabaAyriMiKızBasarisizDf <- filter(df, Anne.ve.babası.ayrı.mı. == 1 & CINSIYET == 0 & Başarılı.Mı

anneVeBabaAyriMiKızBasarisizSayisi <- nrow(anneVeBabaAyriMiKızBasarisizDf)

#Mother and Father separate (1) number of boys (0) and unsuccessful (0) students
anneVeBabaAyriMiErkekBasarisizDf <- filter(df, Anne.ve.babası.ayrı.mı. == 1 & CINSIYET == 1 & Başarılı.I
```

```
anneVeBabaAyriMiErkekBasarisizSayisi <- nrow(anneVeBabaAyriMiErkekBasarisizDf)

if (anneVeBabaAyriMiKızBasarisizSayisi > anneVeBabaAyriMiErkekBasarisizSayisi) {
  print("The students most affected by the separation of mothers and fathers are girl students.")
} else if (anneVeBabaAyriMiKızBasarisizSayisi < anneVeBabaAyriMiErkekBasarisizSayisi) {
  print("The students most affected by the separation of mothers and fathers are boy students.")
} else {
  print("Both genders were equally affected by the separation of the mother and father.")
}
```

```
## [1] "The students most affected by the separation of mothers and fathers are boy students."
```

3. Which attribute is more important to success?

Answer 3

```
#to remove a Column

#df = df[,!(names(df) %in% c("Geçer.Mİ","Geçer.Mİ.1", "Geçer.Mİ.2"))]

#we only got questions from df

#names(df)
dfSorular <- df[, !(names(df) %in% c("OKUL", "SINIF", "NO", "ADI.SOYADI", "CINSIYET", "IKAMET", "ORTALAI

#install.packages("FSelectorRcpp")
library("FSelectorRcpp")
informatinGain <- information_gain(formula(dfSorular), dfSorular, equal = TRUE)
maxGain <- max(informatinGain$importance)
maxGainIndex <- match(maxGain, informatinGain$importance)
informatinGain$attributes[maxGainIndex]
```

```
## [1] "Anne.en.fazla.ilkokul.mezunu.mu."
```

4. Can a new student get a passing grade?

Answer 4

```
#https://www.geeksforgeeks.org/naive-bayes-classifier-in-r-programming/
#install.packages("e1071")
#install.packages("caTools")
#install.packages("caret")

library(e1071)
library(caTools)
library(caret)
```

```
## Zorunlu paket yükleniyor: ggplot2
```

```
## Zorunlu paket yükleniyor: lattice
```

```r
# Splitting data into train
# and test data
split <- sample.split(dfSorular, SplitRatio = 0.7)
split
```

```
## [1]  TRUE  TRUE FALSE  TRUE  TRUE  TRUE FALSE  TRUE FALSE FALSE  TRUE  TRUE
## [13]  TRUE  TRUE FALSE  TRUE
```

```r
trainCl <- subset(dfSorular, split == "TRUE")
trainCl
```

```
##      Anne.veya.baba.en.fazla.ilkokul.mezunu.mu.
## 1                                             0
## 2                                             0
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##      Anne.en.fazla.ilkokul.mezunu.mu. Baba.en.fazla.ilkokul.mezunu.mu.
## 1                                   0                                0
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## 844                              0          0
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## 856                              0          0
## 859                              0          0
## 860                              0          0
```

```
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## 866                                   0            0
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## 877                                   0            0
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## 936                                   0            1
## 939                                   0            0
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```
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## 1013                                   0              0
## 1014                                   0              0
## 1016                                   0              0
```

```
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## 1094                                      0          1
```

```
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## 1106                                             0            0
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## 1109                                             0            1
## 1110                                             0            0
## 1112                                             0            0
## 1115                                             0            1
## 1116                                             0            0
## 1117                                             0            0
## 1118                                             0            1
```

```r
testCl <- subset(dfSorular, split == "FALSE")
testCl
```

```
##       Anne.veya.baba.en.fazla.ilkokul.mezunu.mu.
## 3                                              0
## 7                                              1
## 9                                              0
## 10                                             0
## 15                                             0
## 19                                             0
## 23                                             1
## 25                                             1
## 26                                             0
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## 35                                             0
## 39                                             1
## 41                                             0
## 42                                             0
## 47                                             0
## 51                                             0
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## 58                                             0
## 63                                             1
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## 73                                             0
## 74                                             0
## 79                                             1
## 83                                             1
## 87                                             1
## 89                                             0
## 90                                             0
## 95                                             1
## 99                                             1
## 103                                            1
## 105                                            0
```

```
## 106                                        1
## 111                                        1
## 115                                        0
## 119                                        0
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## 137                                        1
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## 199                                        0
## 201                                        0
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## 250                                        0
## 255                                        1
## 259                                        0
## 263                                        0
## 265                                        0
## 266                                        1
## 271                                        1
## 275                                        0
## 279                                        1
```

```
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## 287                                        1
## 291                                        1
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## 311                                        0
## 313                                        1
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## 343                                        0
## 345                                        0
## 346                                        0
## 351                                        0
## 355                                        1
## 359                                        1
## 361                                        1
## 362                                        1
## 367                                        0
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## 378                                        0
## 383                                        1
## 387                                        0
## 391                                        0
## 393                                        0
## 394                                        0
## 399                                        0
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## 415                                        0
## 419                                        0
## 423                                        1
## 425                                        0
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## 431                                        0
## 435                                        0
## 439                                        0
## 441                                        0
## 442                                        0
## 447                                        0
## 451                                        0
```

```
## 455                                          1
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## 591                                          0
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## 599                                          0
## 601                                          0
## 602                                          1
## 607                                          0
## 611                                          1
## 615                                          1
## 617                                          0
## 618                                          0
## 623                                          0
```

```
## 627                                           1
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## 634                                           0
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## 650                                           0
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## 659                                           1
## 663                                           1
## 665                                           0
## 666                                           0
## 671                                           1
## 675                                           0
## 679                                           1
## 681                                           0
## 682                                           0
## 687                                           1
## 691                                           0
## 695                                           0
## 697                                           1
## 698                                           0
## 703                                           1
## 707                                           0
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## 719                                           1
## 723                                           1
## 727                                           1
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## 735                                           1
## 739                                           0
## 743                                           1
## 745                                           1
## 746                                           1
## 751                                           0
## 755                                           0
## 759                                           0
## 761                                           1
## 762                                           0
## 767                                           0
## 771                                           0
## 775                                           0
## 777                                           0
## 778                                           0
## 783                                           0
## 787                                           0
## 791                                           0
## 793                                           0
## 794                                           0
```

```
## 799                              0
## 803                              1
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## 809                              0
## 810                              1
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## 819                              0
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## 831                              1
## 835                              0
## 839                              0
## 841                              0
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## 873                              0
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## 879                              1
## 883                              0
## 887                              0
## 889                              0
## 890                              0
## 895                              0
## 899                              0
## 903                              0
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## 915                              0
## 919                              0
## 921                              0
## 922                              0
## 927                              1
## 931                              1
## 935                              0
## 937                              0
## 938                              0
## 943                              0
## 947                              0
## 951                              0
## 953                              0
## 954                              0
## 959                              0
## 963                              0
## 967                              1
## 969                              1
```

```
## 970                                      0
## 975                                      0
## 979                                      0
## 983                                      1
## 985                                      1
## 986                                      0
## 991                                      0
## 995                                      0
## 999                                      0
## 1001                                     1
## 1002                                     1
## 1007                                     0
## 1011                                     0
## 1015                                     1
## 1017                                     0
## 1018                                     1
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## 1027                                     1
## 1031                                     0
## 1033                                     0
## 1034                                     0
## 1039                                     1
## 1043                                     0
## 1047                                     0
## 1049                                     1
## 1050                                     0
## 1055                                     1
## 1059                                     0
## 1063                                     1
## 1065                                     0
## 1066                                     1
## 1071                                     1
## 1075                                     1
## 1079                                     1
## 1081                                     1
## 1082                                     1
## 1087                                     1
## 1091                                     0
## 1095                                     0
## 1097                                     1
## 1098                                     1
## 1103                                     0
## 1107                                     1
## 1111                                     1
## 1113                                     0
## 1114                                     1
## 1119                                     0
##      Anne.en.fazla.ilkokul.mezunu.mu. Baba.en.fazla.ilkokul.mezunu.mu.
## 3                                    0                                0
## 7                                    1                                1
## 9                                    0                                0
## 10                                   0                                0
## 15                                   0                                0
## 19                                   0                                0
```

149

```
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## 42                               0                               0
## 47                               0                               0
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## 57                               0                               0
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## 71                               0                               0
## 73                               0                               0
## 74                               0                               0
## 79                               1                               0
## 83                               1                               0
## 87                               1                               0
## 89                               0                               0
## 90                               0                               0
## 95                               1                               0
## 99                               1                               1
## 103                              1                               0
## 105                              0                               0
## 106                              1                               0
## 111                              1                               1
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## 119                              0                               0
## 121                              0                               0
## 122                              0                               0
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## 131                              0                               0
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## 137                              1                               0
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## 147                              1                               0
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## 153                              0                               1
## 154                              0                               1
## 159                              0                               0
## 163                              0                               0
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## 169                              1                               0
## 170                              0                               1
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## 179                              1                               1
## 183                              0                               0
## 185                              1                               0
## 186                              1                               1
## 191                              1                               1
```

```
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## 201                           0                              0
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## 362                           1                              1
```

```
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## 403                          0                          0
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## 458                          1                          1
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## 474                          1                          1
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## 483                          0                          0
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```

```
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## 575                         0                              0
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## 585                         0                              0
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## 591                         0                              0
## 595                         1                              1
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## 602                         0                              1
## 607                         0                              0
## 611                         1                              1
## 615                         0                              1
## 617                         0                              0
## 618                         0                              0
## 623                         0                              0
## 627                         1                              1
## 631                         1                              1
## 633                         1                              1
## 634                         0                              0
## 639                         1                              1
## 643                         0                              0
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## 649                         0                              0
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## 655                         1                              1
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## 663                         1                              0
## 665                         0                              0
## 666                         0                              0
## 671                         0                              1
## 675                         0                              0
## 679                         0                              1
## 681                         0                              0
## 682                         0                              0
## 687                         1                              1
## 691                         0                              0
## 695                         0                              0
## 697                         1                              0
## 698                         0                              0
## 703                         1                              1
## 707                         0                              0
## 711                         1                              1
```

```
## 713                          0                          0
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## 723                          1                          1
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## 794                          0                          0
## 799                          0                          0
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## 807                          0                          0
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## 855                          0                          0
## 857                          0                          0
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## 871                          0                          0
## 873                          0                          0
## 874                          0                          1
## 879                          1                          0
## 883                          0                          0
```

```
## 887                          0                           0
## 889                          0                           0
## 890                          0                           0
## 895                          0                           0
## 899                          0                           0
## 903                          0                           0
## 905                          0                           0
## 906                          1                           1
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## 919                          0                           0
## 921                          0                           0
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## 927                          1                           1
## 931                          1                           1
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## 938                          0                           0
## 943                          0                           0
## 947                          0                           0
## 951                          0                           0
## 953                          0                           0
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## 963                          0                           0
## 967                          1                           1
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## 985                          1                           0
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## 995                          0                           0
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## 1001                         1                           1
## 1002                         1                           0
## 1007                         0                           0
## 1011                         0                           0
## 1015                         1                           1
## 1017                         0                           0
## 1018                         1                           0
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## 1027                         1                           1
## 1031                         0                           0
## 1033                         0                           0
## 1034                         0                           0
## 1039                         1                           0
## 1043                         0                           0
## 1047                         0                           0
## 1049                         1                           0
## 1050                         0                           0
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175

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## 665                      0                              1
## 666                      0                              0
## 671                      0                              0
## 675                      0                              0
## 679                      0                              0
## 681                      0                              0
## 682                      0                              0
## 687                      0                              0
## 691                      0                              0
## 695                      0                              0
## 697                      0                              0
## 698                      0                              0
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## 707                      0                              0
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## 714                      0                              0
## 719                      0                              0
## 723                      0                              0
## 727                      0                              0
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## 762                      0                              0
## 767                      0                              0
## 771                      0                              0
## 775                      0                              0
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## 778                      0                              0
## 783                      0                              0
## 787                      0                              0
## 791                      0                              0
## 793                      0                              0
## 794                      0                              0
```

```
## 799                      0                              1
## 803                      0                              0
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## 809                      0                              0
## 810                      0                              0
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## 831                      0                              0
## 835                      0                              0
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## 841                      0                              0
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## 863                      0                              0
## 867                      0                              0
## 871                      0                              0
## 873                      0                              0
## 874                      0                              0
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## 899                      0                              0
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## 905                      0                              0
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## 953                      0                              0
## 954                      0                              0
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## 963                      0                              0
## 967                      0                              0
## 969                      0                              0
```

```
## 970                              0                            0
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## 983                              0                            1
## 985                              0                            0
## 986                              0                            0
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## 1081                             0                            0
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## 1098                             0                            0
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## 1107                             0                            0
## 1111                             0                            1
## 1113                             0                            0
## 1114                             0                            0
## 1119                             0                            1
##      Öğrencide.Süreğen.hastalık.var.mı. Başarılı.Mı
## 3                                     0           1
## 7                                     0           1
## 9                                     0           1
## 10                                    0           1
## 15                                    0           1
## 19                                    0           1
```

```
## 23                                    0            1
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## 111                                   0            1
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## 186                                   0            1
## 191                                   0            1
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## 298                                    0              1
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## 355                                    0              0
## 359                                    0              1
## 361                                    0              1
## 362                                    0              1
```

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## 419                    0          1
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## 495                    0          1
## 499                    0          1
## 503                    0          0
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## 506                    0          0
## 511                    0          1
## 515                    0          0
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## 521                    0          0
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## 527                    0          1
## 531                    0          0
## 535                    0          1
## 537                    0          1
```

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## 551                                 0          1
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## 554                                 0          0
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## 575                                 0          0
## 579                                 0          0
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## 586                                 0          0
## 591                                 0          1
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## 643                                 0          0
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## 650                                 0          0
## 655                                 0          1
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## 663                                 0          0
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## 666                                 0          0
## 671                                 0          0
## 675                                 0          1
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## 682                                 1          0
## 687                                 0          1
## 691                                 0          0
## 695                                 0          1
## 697                                 0          0
## 698                                 0          1
## 703                                 0          1
## 707                                 0          0
## 711                                 1          0
```

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## 713                              0            1
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## 719                              0            0
## 723                              0            0
## 727                              1            0
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## 771                              0            1
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## 867                              0            0
## 871                              0            0
## 873                              0            0
## 874                              0            0
## 879                              0            0
## 883                              0            0
```

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## 887                                              0                    0
## 889                                              0                    0
## 890                                              0                    0
## 895                                              0                    0
## 899                                              0                    0
## 903                                              0                    0
## 905                                              0                    0
## 906                                              0                    0
## 911                                              0                    1
## 915                                              0                    0
## 919                                              0                    0
## 921                                              0                    0
## 922                                              0                    0
## 927                                              0                    0
## 931                                              0                    0
## 935                                              0                    0
## 937                                              0                    0
## 938                                              0                    1
## 943                                              0                    0
## 947                                              0                    0
## 951                                              0                    0
## 953                                              0                    1
## 954                                              0                    0
## 959                                              0                    1
## 963                                              0                    0
## 967                                              0                    0
## 969                                              0                    0
## 970                                              0                    0
## 975                                              0                    0
## 979                                              0                    0
## 983                                              0                    0
## 985                                              0                    1
## 986                                              0                    0
## 991                                              0                    1
## 995                                              0                    1
## 999                                              0                    0
## 1001                                             0                    0
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## 1011                                             0                    0
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## 1017                                             0                    0
## 1018                                             0                    0
## 1023                                             0                    0
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## 1043                                             0                    0
## 1047                                             0                    1
## 1049                                             0                    0
## 1050                                             0                    0
## 1055                                             1                    0
```

```
## 1059                                          0               0
## 1063                                          1               0
## 1065                                          0               0
## 1066                                          0               0
## 1071                                          0               0
## 1075                                          0               1
## 1079                                          0               0
## 1081                                          1               1
## 1082                                          0               1
## 1087                                          0               1
## 1091                                          0               0
## 1095                                          0               1
## 1097                                          1               0
## 1098                                          0               1
## 1103                                          0               1
## 1107                                          0               0
## 1111                                          0               0
## 1113                                          0               1
## 1114                                          0               0
## 1119                                          0               0
```

```r
# Feature Scaling
trainScale <- scale(trainCl[, 1:4])
trainScale
```

```
##         Anne.veya.baba.en.fazla.ilkokul.mezunu.mu.
## 1                                      -0.7818972
## 2                                      -0.7818972
## 4                                       1.2772773
## 5                                       1.2772773
## 6                                      -0.7818972
## 8                                       1.2772773
## 11                                      1.2772773
## 12                                     -0.7818972
## 13                                     -0.7818972
## 14                                     -0.7818972
## 16                                     -0.7818972
## 17                                     -0.7818972
## 18                                      1.2772773
## 20                                     -0.7818972
## 21                                     -0.7818972
## 22                                     -0.7818972
## 24                                      1.2772773
## 27                                     -0.7818972
## 28                                     -0.7818972
## 29                                      1.2772773
## 30                                     -0.7818972
## 32                                     -0.7818972
## 33                                     -0.7818972
## 34                                      1.2772773
## 36                                     -0.7818972
## 37                                     -0.7818972
## 38                                      1.2772773
## 40                                     -0.7818972
```

```
## 43                                          -0.7818972
## 44                                          -0.7818972
## 45                                          -0.7818972
## 46                                          -0.7818972
## 48                                          -0.7818972
## 49                                          -0.7818972
## 50                                           1.2772773
## 52                                          -0.7818972
## 53                                          -0.7818972
## 54                                          -0.7818972
## 56                                          -0.7818972
## 59                                           1.2772773
## 60                                          -0.7818972
## 61                                          -0.7818972
## 62                                          -0.7818972
## 64                                          -0.7818972
## 65                                           1.2772773
## 66                                           1.2772773
## 68                                          -0.7818972
## 69                                           1.2772773
## 70                                          -0.7818972
## 72                                          -0.7818972
## 75                                          -0.7818972
## 76                                          -0.7818972
## 77                                          -0.7818972
## 78                                          -0.7818972
## 80                                          -0.7818972
## 81                                           1.2772773
## 82                                          -0.7818972
## 84                                          -0.7818972
## 85                                          -0.7818972
## 86                                          -0.7818972
## 88                                          -0.7818972
## 91                                           1.2772773
## 92                                          -0.7818972
## 93                                          -0.7818972
## 94                                           1.2772773
## 96                                           1.2772773
## 97                                          -0.7818972
## 98                                          -0.7818972
## 100                                          1.2772773
## 101                                          1.2772773
## 102                                         -0.7818972
## 104                                         -0.7818972
## 107                                         -0.7818972
## 108                                         -0.7818972
## 109                                         -0.7818972
## 110                                          1.2772773
## 112                                          1.2772773
## 113                                          1.2772773
## 114                                         -0.7818972
## 116                                          1.2772773
## 117                                          1.2772773
## 118                                         -0.7818972
```

```
## 120                                            1.2772773
## 123                                            1.2772773
## 124                                           -0.7818972
## 125                                            1.2772773
## 126                                           -0.7818972
## 128                                           -0.7818972
## 129                                           -0.7818972
## 130                                           -0.7818972
## 132                                           -0.7818972
## 133                                           -0.7818972
## 134                                           -0.7818972
## 136                                           -0.7818972
## 139                                           -0.7818972
## 140                                           -0.7818972
## 141                                           -0.7818972
## 142                                           -0.7818972
## 144                                            1.2772773
## 145                                           -0.7818972
## 146                                           -0.7818972
## 148                                           -0.7818972
## 149                                            1.2772773
## 150                                           -0.7818972
## 152                                           -0.7818972
## 155                                           -0.7818972
## 156                                           -0.7818972
## 157                                           -0.7818972
## 158                                            1.2772773
## 160                                            1.2772773
## 161                                            1.2772773
## 162                                            1.2772773
## 164                                            1.2772773
## 165                                            1.2772773
## 166                                           -0.7818972
## 168                                            1.2772773
## 171                                            1.2772773
## 172                                           -0.7818972
## 173                                            1.2772773
## 174                                            1.2772773
## 176                                            1.2772773
## 177                                            1.2772773
## 178                                            1.2772773
## 180                                            1.2772773
## 181                                           -0.7818972
## 182                                            1.2772773
## 184                                           -0.7818972
## 187                                           -0.7818972
## 188                                            1.2772773
## 189                                           -0.7818972
## 190                                           -0.7818972
## 192                                           -0.7818972
## 193                                           -0.7818972
## 194                                           -0.7818972
## 196                                            1.2772773
## 197                                            1.2772773
```

```
## 198                                   -0.7818972
## 200                                    1.2772773
## 203                                   -0.7818972
## 204                                    1.2772773
## 205                                    1.2772773
## 206                                   -0.7818972
## 208                                    1.2772773
## 209                                    1.2772773
## 210                                    1.2772773
## 212                                    1.2772773
## 213                                    1.2772773
## 214                                   -0.7818972
## 216                                   -0.7818972
## 219                                   -0.7818972
## 220                                    1.2772773
## 221                                    1.2772773
## 222                                   -0.7818972
## 224                                   -0.7818972
## 225                                   -0.7818972
## 226                                   -0.7818972
## 228                                    1.2772773
## 229                                   -0.7818972
## 230                                   -0.7818972
## 232                                    1.2772773
## 235                                   -0.7818972
## 236                                    1.2772773
## 237                                   -0.7818972
## 238                                   -0.7818972
## 240                                   -0.7818972
## 241                                   -0.7818972
## 242                                   -0.7818972
## 244                                   -0.7818972
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## 246                                    1.2772773
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## 251                                    1.2772773
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## 258                                    1.2772773
## 260                                    1.2772773
## 261                                    1.2772773
## 262                                   -0.7818972
## 264                                    1.2772773
## 267                                   -0.7818972
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## 276                                    1.2772773
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## 277                                    1.2772773
## 278                                    1.2772773
## 280                                    1.2772773
## 283                                   -0.7818972
## 284                                    1.2772773
## 285                                    1.2772773
## 286                                    1.2772773
## 288                                   -0.7818972
## 289                                    1.2772773
## 290                                   -0.7818972
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## 296                                    1.2772773
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## 301                                    1.2772773
## 302                                    1.2772773
## 304                                   -0.7818972
## 305                                   -0.7818972
## 306                                   -0.7818972
## 308                                   -0.7818972
## 309                                    1.2772773
## 310                                    1.2772773
## 312                                   -0.7818972
## 315                                    1.2772773
## 316                                   -0.7818972
## 317                                    1.2772773
## 318                                   -0.7818972
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## 321                                   -0.7818972
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## 328                                    1.2772773
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## 352                                    1.2772773
## 353                                   -0.7818972
## 354                                   -0.7818972
```

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## 356                                          -0.7818972
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## 358                                          -0.7818972
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## 396                                           1.2772773
## 397                                          -0.7818972
## 398                                          -0.7818972
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##      Anne.en.fazla.ilkokul.mezunu.mu. Baba.en.fazla.ilkokul.mezunu.mu.
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##      Öğrenci.tek.çocuk.mu.
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## 593           -0.3751883
## 594           -0.3751883
## 596           -0.3751883
## 597           -0.3751883
## 598            2.6618623
## 600           -0.3751883
## 603           -0.3751883
## 604           -0.3751883
## 605           -0.3751883
## 606           -0.3751883
## 608           -0.3751883
## 609            2.6618623
## 610           -0.3751883
## 612           -0.3751883
## 613           -0.3751883
## 614           -0.3751883
## 616           -0.3751883
## 619           -0.3751883
## 620           -0.3751883
## 621           -0.3751883
## 622           -0.3751883
## 624           -0.3751883
## 625           -0.3751883
## 626           -0.3751883
## 628           -0.3751883
```

```
## 629             -0.3751883
## 630              2.6618623
## 632             -0.3751883
## 635             -0.3751883
## 636             -0.3751883
## 637             -0.3751883
## 638             -0.3751883
## 640             -0.3751883
## 641             -0.3751883
## 642             -0.3751883
## 644             -0.3751883
## 645             -0.3751883
## 646             -0.3751883
## 648             -0.3751883
## 651             -0.3751883
## 652             -0.3751883
## 653             -0.3751883
## 654              2.6618623
## 656             -0.3751883
## 657             -0.3751883
## 658             -0.3751883
## 660             -0.3751883
## 661             -0.3751883
## 662             -0.3751883
## 664              2.6618623
## 667             -0.3751883
## 668             -0.3751883
## 669             -0.3751883
## 670             -0.3751883
## 672             -0.3751883
## 673             -0.3751883
## 674             -0.3751883
## 676             -0.3751883
## 677             -0.3751883
## 678             -0.3751883
## 680             -0.3751883
## 683             -0.3751883
## 684             -0.3751883
## 685              2.6618623
## 686             -0.3751883
## 688             -0.3751883
## 689             -0.3751883
## 690             -0.3751883
## 692             -0.3751883
## 693             -0.3751883
## 694             -0.3751883
## 696             -0.3751883
## 699             -0.3751883
## 700             -0.3751883
## 701             -0.3751883
## 702             -0.3751883
## 704             -0.3751883
## 705             -0.3751883
## 706             -0.3751883
```

```
## 708          -0.3751883
## 709          -0.3751883
## 710          -0.3751883
## 712          -0.3751883
## 715          -0.3751883
## 716          -0.3751883
## 717          -0.3751883
## 718          -0.3751883
## 720          -0.3751883
## 721          -0.3751883
## 722          -0.3751883
## 724          -0.3751883
## 725          -0.3751883
## 726          -0.3751883
## 728          -0.3751883
## 731          -0.3751883
## 732          -0.3751883
## 733           2.6618623
## 734          -0.3751883
## 736          -0.3751883
## 737          -0.3751883
## 738          -0.3751883
## 740          -0.3751883
## 741          -0.3751883
## 742          -0.3751883
## 744          -0.3751883
## 747          -0.3751883
## 748          -0.3751883
## 749          -0.3751883
## 750           2.6618623
## 752          -0.3751883
## 753          -0.3751883
## 754          -0.3751883
## 756          -0.3751883
## 757          -0.3751883
## 758           2.6618623
## 760          -0.3751883
## 763          -0.3751883
## 764          -0.3751883
## 765          -0.3751883
## 766          -0.3751883
## 768          -0.3751883
## 769          -0.3751883
## 770          -0.3751883
## 772           2.6618623
## 773           2.6618623
## 774          -0.3751883
## 776          -0.3751883
## 779          -0.3751883
## 780          -0.3751883
## 781           2.6618623
## 782          -0.3751883
## 784          -0.3751883
## 785          -0.3751883
```

```
## 786                    -0.3751883
## 788                    -0.3751883
## 789                     2.6618623
## 790                    -0.3751883
## 792                    -0.3751883
## 795                    -0.3751883
## 796                    -0.3751883
## 797                    -0.3751883
## 798                    -0.3751883
## 800                     2.6618623
## 801                    -0.3751883
## 802                    -0.3751883
## 804                    -0.3751883
## 805                    -0.3751883
## 806                    -0.3751883
## 808                    -0.3751883
## 811                    -0.3751883
## 812                     2.6618623
## 813                     2.6618623
## 814                     2.6618623
## 816                    -0.3751883
## 817                    -0.3751883
## 818                    -0.3751883
## 820                    -0.3751883
## 821                    -0.3751883
## 822                    -0.3751883
## 824                     2.6618623
## 827                    -0.3751883
## 828                    -0.3751883
## 829                    -0.3751883
## 830                    -0.3751883
## 832                    -0.3751883
## 833                    -0.3751883
## 834                    -0.3751883
## 836                    -0.3751883
## 837                    -0.3751883
## 838                    -0.3751883
## 840                    -0.3751883
## 843                    -0.3751883
## 844                    -0.3751883
## 845                    -0.3751883
## 846                    -0.3751883
## 848                    -0.3751883
## 849                    -0.3751883
## 850                    -0.3751883
## 852                    -0.3751883
## 853                    -0.3751883
## 854                    -0.3751883
## 856                    -0.3751883
## 859                    -0.3751883
## 860                    -0.3751883
## 861                    -0.3751883
## 862                    -0.3751883
## 864                    -0.3751883
```

```
## 865            -0.3751883
## 866            -0.3751883
## 868            -0.3751883
## 869            -0.3751883
## 870            -0.3751883
## 872            -0.3751883
## 875            -0.3751883
## 876            -0.3751883
## 877            -0.3751883
## 878            -0.3751883
## 880            -0.3751883
## 881            -0.3751883
## 882            -0.3751883
## 884            -0.3751883
## 885            -0.3751883
## 886            -0.3751883
## 888            -0.3751883
## 891            -0.3751883
## 892            -0.3751883
## 893            -0.3751883
## 894            -0.3751883
## 896            -0.3751883
## 897            -0.3751883
## 898            -0.3751883
## 900            -0.3751883
## 901            -0.3751883
## 902            -0.3751883
## 904            -0.3751883
## 907            -0.3751883
## 908            -0.3751883
## 909            -0.3751883
## 910            -0.3751883
## 912             2.6618623
## 913            -0.3751883
## 914            -0.3751883
## 916            -0.3751883
## 917            -0.3751883
## 918            -0.3751883
## 920            -0.3751883
## 923            -0.3751883
## 924            -0.3751883
## 925            -0.3751883
## 926            -0.3751883
## 928             2.6618623
## 929            -0.3751883
## 930            -0.3751883
## 932            -0.3751883
## 933            -0.3751883
## 934            -0.3751883
## 936            -0.3751883
## 939            -0.3751883
## 940            -0.3751883
## 941            -0.3751883
## 942            -0.3751883
```

```
## 944            -0.3751883
## 945            -0.3751883
## 946            -0.3751883
## 948            -0.3751883
## 949            -0.3751883
## 950            -0.3751883
## 952             2.6618623
## 955            -0.3751883
## 956            -0.3751883
## 957            -0.3751883
## 958            -0.3751883
## 960             2.6618623
## 961             2.6618623
## 962            -0.3751883
## 964            -0.3751883
## 965            -0.3751883
## 966            -0.3751883
## 968            -0.3751883
## 971             2.6618623
## 972            -0.3751883
## 973             2.6618623
## 974            -0.3751883
## 976            -0.3751883
## 977            -0.3751883
## 978             2.6618623
## 980             2.6618623
## 981            -0.3751883
## 982            -0.3751883
## 984            -0.3751883
## 987            -0.3751883
## 988            -0.3751883
## 989            -0.3751883
## 990            -0.3751883
## 992            -0.3751883
## 993            -0.3751883
## 994             2.6618623
## 996            -0.3751883
## 997            -0.3751883
## 998            -0.3751883
## 1000           -0.3751883
## 1003           -0.3751883
## 1004           -0.3751883
## 1005           -0.3751883
## 1006           -0.3751883
## 1008           -0.3751883
## 1009           -0.3751883
## 1010            2.6618623
## 1012            2.6618623
## 1013           -0.3751883
## 1014           -0.3751883
## 1016           -0.3751883
## 1019           -0.3751883
## 1020           -0.3751883
## 1021           -0.3751883
```

```
## 1022             -0.3751883
## 1024             -0.3751883
## 1025             -0.3751883
## 1026             -0.3751883
## 1028             -0.3751883
## 1029             -0.3751883
## 1030              2.6618623
## 1032             -0.3751883
## 1035              2.6618623
## 1036             -0.3751883
## 1037              2.6618623
## 1038              2.6618623
## 1040              2.6618623
## 1041             -0.3751883
## 1042             -0.3751883
## 1044             -0.3751883
## 1045             -0.3751883
## 1046             -0.3751883
## 1048             -0.3751883
## 1051             -0.3751883
## 1052             -0.3751883
## 1053             -0.3751883
## 1054             -0.3751883
## 1056             -0.3751883
## 1057             -0.3751883
## 1058             -0.3751883
## 1060              2.6618623
## 1061             -0.3751883
## 1062             -0.3751883
## 1064             -0.3751883
## 1067             -0.3751883
## 1068             -0.3751883
## 1069             -0.3751883
## 1070             -0.3751883
## 1072             -0.3751883
## 1073             -0.3751883
## 1074              2.6618623
## 1076             -0.3751883
## 1077             -0.3751883
## 1078             -0.3751883
## 1080             -0.3751883
## 1083             -0.3751883
## 1084             -0.3751883
## 1085             -0.3751883
## 1086             -0.3751883
## 1088             -0.3751883
## 1089             -0.3751883
## 1090             -0.3751883
## 1092             -0.3751883
## 1093             -0.3751883
## 1094             -0.3751883
## 1096             -0.3751883
## 1099             -0.3751883
## 1100             -0.3751883
```

```
## 1101               -0.3751883
## 1102               -0.3751883
## 1104               -0.3751883
## 1105                2.6618623
## 1106               -0.3751883
## 1108               -0.3751883
## 1109               -0.3751883
## 1110               -0.3751883
## 1112               -0.3751883
## 1115                2.6618623
## 1116               -0.3751883
## 1117               -0.3751883
## 1118               -0.3751883
## attr(,"scaled:center")
## Anne.veya.baba.en.fazla.ilkokul.mezunu.mu.
##                                  0.3797139
##          Anne.en.fazla.ilkokul.mezunu.mu.
##                                  0.3368010
##          Baba.en.fazla.ilkokul.mezunu.mu.
##                                  0.2769831
##                     Öğrenci.tek.çocuk.mu.
##                                  0.1235371
## attr(,"scaled:scale")
## Anne.veya.baba.en.fazla.ilkokul.mezunu.mu.
##                                  0.4856315
##          Anne.en.fazla.ilkokul.mezunu.mu.
##                                  0.4729238
##          Baba.en.fazla.ilkokul.mezunu.mu.
##                                  0.4477993
##                     Öğrenci.tek.çocuk.mu.
##                                  0.3292668
```

```r
testScale <- scale(testCl[, 1:4])
testScale
```

```
##      Anne.veya.baba.en.fazla.ilkokul.mezunu.mu.
## 3                                   -0.7770293
## 7                                    1.2832757
## 9                                   -0.7770293
## 10                                  -0.7770293
## 15                                  -0.7770293
## 19                                  -0.7770293
## 23                                   1.2832757
## 25                                   1.2832757
## 26                                  -0.7770293
## 31                                   1.2832757
## 35                                  -0.7770293
## 39                                   1.2832757
## 41                                  -0.7770293
## 42                                  -0.7770293
## 47                                  -0.7770293
## 51                                  -0.7770293
## 55                                   1.2832757
## 57                                  -0.7770293
```

```
## 58                                      -0.7770293
## 63                                       1.2832757
## 67                                       1.2832757
## 71                                      -0.7770293
## 73                                      -0.7770293
## 74                                      -0.7770293
## 79                                       1.2832757
## 83                                       1.2832757
## 87                                       1.2832757
## 89                                      -0.7770293
## 90                                      -0.7770293
## 95                                       1.2832757
## 99                                       1.2832757
## 103                                      1.2832757
## 105                                     -0.7770293
## 106                                      1.2832757
## 111                                      1.2832757
## 115                                     -0.7770293
## 119                                     -0.7770293
## 121                                     -0.7770293
## 122                                     -0.7770293
## 127                                      1.2832757
## 131                                     -0.7770293
## 135                                     -0.7770293
## 137                                      1.2832757
## 138                                     -0.7770293
## 143                                     -0.7770293
## 147                                      1.2832757
## 151                                      1.2832757
## 153                                      1.2832757
## 154                                      1.2832757
## 159                                     -0.7770293
## 163                                     -0.7770293
## 167                                     -0.7770293
## 169                                      1.2832757
## 170                                      1.2832757
## 175                                     -0.7770293
## 179                                      1.2832757
## 183                                     -0.7770293
## 185                                      1.2832757
## 186                                      1.2832757
## 191                                      1.2832757
## 195                                      1.2832757
## 199                                     -0.7770293
## 201                                     -0.7770293
## 202                                      1.2832757
## 207                                     -0.7770293
## 211                                     -0.7770293
## 215                                     -0.7770293
## 217                                     -0.7770293
## 218                                      1.2832757
## 223                                     -0.7770293
## 227                                     -0.7770293
## 231                                     -0.7770293
```

```
## 233                                      -0.7770293
## 234                                       1.2832757
## 239                                       1.2832757
## 243                                       1.2832757
## 247                                      -0.7770293
## 249                                       1.2832757
## 250                                      -0.7770293
## 255                                       1.2832757
## 259                                      -0.7770293
## 263                                      -0.7770293
## 265                                      -0.7770293
## 266                                       1.2832757
## 271                                       1.2832757
## 275                                      -0.7770293
## 279                                       1.2832757
## 281                                      -0.7770293
## 282                                       1.2832757
## 287                                       1.2832757
## 291                                       1.2832757
## 295                                       1.2832757
## 297                                       1.2832757
## 298                                      -0.7770293
## 303                                      -0.7770293
## 307                                       1.2832757
## 311                                      -0.7770293
## 313                                       1.2832757
## 314                                       1.2832757
## 319                                       1.2832757
## 323                                      -0.7770293
## 327                                      -0.7770293
## 329                                       1.2832757
## 330                                       1.2832757
## 335                                       1.2832757
## 339                                      -0.7770293
## 343                                      -0.7770293
## 345                                      -0.7770293
## 346                                      -0.7770293
## 351                                      -0.7770293
## 355                                       1.2832757
## 359                                       1.2832757
## 361                                       1.2832757
## 362                                       1.2832757
## 367                                      -0.7770293
## 371                                      -0.7770293
## 375                                      -0.7770293
## 377                                      -0.7770293
## 378                                      -0.7770293
## 383                                       1.2832757
## 387                                      -0.7770293
## 391                                      -0.7770293
## 393                                      -0.7770293
## 394                                      -0.7770293
## 399                                      -0.7770293
## 403                                      -0.7770293
```

```
## 407                                -0.7770293
## 409                                -0.7770293
## 410                                -0.7770293
## 415                                -0.7770293
## 419                                -0.7770293
## 423                                 1.2832757
## 425                                -0.7770293
## 426                                -0.7770293
## 431                                -0.7770293
## 435                                -0.7770293
## 439                                -0.7770293
## 441                                -0.7770293
## 442                                -0.7770293
## 447                                -0.7770293
## 451                                -0.7770293
## 455                                 1.2832757
## 457                                -0.7770293
## 458                                 1.2832757
## 463                                -0.7770293
## 467                                -0.7770293
## 471                                -0.7770293
## 473                                -0.7770293
## 474                                 1.2832757
## 479                                -0.7770293
## 483                                -0.7770293
## 487                                -0.7770293
## 489                                 1.2832757
## 490                                 1.2832757
## 495                                -0.7770293
## 499                                -0.7770293
## 503                                -0.7770293
## 505                                -0.7770293
## 506                                 1.2832757
## 511                                -0.7770293
## 515                                -0.7770293
## 519                                -0.7770293
## 521                                -0.7770293
## 522                                -0.7770293
## 527                                -0.7770293
## 531                                -0.7770293
## 535                                -0.7770293
## 537                                -0.7770293
## 538                                 1.2832757
## 543                                -0.7770293
## 547                                 1.2832757
## 551                                 1.2832757
## 553                                -0.7770293
## 554                                 1.2832757
## 559                                -0.7770293
## 563                                 1.2832757
## 567                                 1.2832757
## 569                                -0.7770293
## 570                                -0.7770293
## 575                                -0.7770293
```

```
## 579                                    -0.7770293
## 583                                    -0.7770293
## 585                                    -0.7770293
## 586                                    -0.7770293
## 591                                    -0.7770293
## 595                                     1.2832757
## 599                                    -0.7770293
## 601                                    -0.7770293
## 602                                     1.2832757
## 607                                    -0.7770293
## 611                                     1.2832757
## 615                                     1.2832757
## 617                                    -0.7770293
## 618                                    -0.7770293
## 623                                    -0.7770293
## 627                                     1.2832757
## 631                                     1.2832757
## 633                                     1.2832757
## 634                                    -0.7770293
## 639                                     1.2832757
## 643                                    -0.7770293
## 647                                     1.2832757
## 649                                    -0.7770293
## 650                                    -0.7770293
## 655                                     1.2832757
## 659                                     1.2832757
## 663                                     1.2832757
## 665                                    -0.7770293
## 666                                    -0.7770293
## 671                                     1.2832757
## 675                                    -0.7770293
## 679                                     1.2832757
## 681                                    -0.7770293
## 682                                    -0.7770293
## 687                                     1.2832757
## 691                                    -0.7770293
## 695                                    -0.7770293
## 697                                     1.2832757
## 698                                    -0.7770293
## 703                                     1.2832757
## 707                                    -0.7770293
## 711                                     1.2832757
## 713                                    -0.7770293
## 714                                    -0.7770293
## 719                                     1.2832757
## 723                                     1.2832757
## 727                                     1.2832757
## 729                                     1.2832757
## 730                                     1.2832757
## 735                                     1.2832757
## 739                                    -0.7770293
## 743                                     1.2832757
## 745                                     1.2832757
## 746                                     1.2832757
```

```
## 751                                    -0.7770293
## 755                                    -0.7770293
## 759                                    -0.7770293
## 761                                     1.2832757
## 762                                    -0.7770293
## 767                                    -0.7770293
## 771                                    -0.7770293
## 775                                    -0.7770293
## 777                                    -0.7770293
## 778                                    -0.7770293
## 783                                    -0.7770293
## 787                                    -0.7770293
## 791                                    -0.7770293
## 793                                    -0.7770293
## 794                                    -0.7770293
## 799                                    -0.7770293
## 803                                     1.2832757
## 807                                    -0.7770293
## 809                                    -0.7770293
## 810                                     1.2832757
## 815                                     1.2832757
## 819                                    -0.7770293
## 823                                    -0.7770293
## 825                                    -0.7770293
## 826                                    -0.7770293
## 831                                     1.2832757
## 835                                    -0.7770293
## 839                                    -0.7770293
## 841                                    -0.7770293
## 842                                    -0.7770293
## 847                                     1.2832757
## 851                                    -0.7770293
## 855                                    -0.7770293
## 857                                    -0.7770293
## 858                                    -0.7770293
## 863                                    -0.7770293
## 867                                    -0.7770293
## 871                                    -0.7770293
## 873                                    -0.7770293
## 874                                     1.2832757
## 879                                     1.2832757
## 883                                    -0.7770293
## 887                                    -0.7770293
## 889                                    -0.7770293
## 890                                    -0.7770293
## 895                                    -0.7770293
## 899                                    -0.7770293
## 903                                    -0.7770293
## 905                                    -0.7770293
## 906                                     1.2832757
## 911                                    -0.7770293
## 915                                    -0.7770293
## 919                                    -0.7770293
## 921                                    -0.7770293
```

```
## 922                                         -0.7770293
## 927                                          1.2832757
## 931                                          1.2832757
## 935                                         -0.7770293
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##      Öğrenci.tek.çocuk.mu.
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## 313          -0.3884372
## 314          -0.3884372
## 319          -0.3884372
## 323          -0.3884372
## 327          -0.3884372
## 329          -0.3884372
## 330           2.5670632
## 335          -0.3884372
## 339          -0.3884372
## 343          -0.3884372
## 345          -0.3884372
## 346          -0.3884372
## 351          -0.3884372
## 355          -0.3884372
## 359          -0.3884372
## 361           2.5670632
## 362           2.5670632
## 367          -0.3884372
## 371          -0.3884372
## 375          -0.3884372
## 377          -0.3884372
## 378          -0.3884372
## 383          -0.3884372
## 387          -0.3884372
## 391          -0.3884372
## 393          -0.3884372
## 394          -0.3884372
## 399          -0.3884372
## 403          -0.3884372
```

```
## 407              -0.3884372
## 409              -0.3884372
## 410              -0.3884372
## 415              -0.3884372
## 419              -0.3884372
## 423              -0.3884372
## 425              -0.3884372
## 426              -0.3884372
## 431              -0.3884372
## 435              -0.3884372
## 439              -0.3884372
## 441              -0.3884372
## 442              -0.3884372
## 447              -0.3884372
## 451              -0.3884372
## 455              -0.3884372
## 457              -0.3884372
## 458              -0.3884372
## 463              -0.3884372
## 467              -0.3884372
## 471              -0.3884372
## 473              -0.3884372
## 474              -0.3884372
## 479              -0.3884372
## 483              -0.3884372
## 487              -0.3884372
## 489              -0.3884372
## 490              -0.3884372
## 495              -0.3884372
## 499              -0.3884372
## 503              -0.3884372
## 505              -0.3884372
## 506              -0.3884372
## 511              -0.3884372
## 515              -0.3884372
## 519              -0.3884372
## 521              -0.3884372
## 522               2.5670632
## 527               2.5670632
## 531              -0.3884372
## 535              -0.3884372
## 537              -0.3884372
## 538              -0.3884372
## 543               2.5670632
## 547              -0.3884372
## 551              -0.3884372
## 553              -0.3884372
## 554              -0.3884372
## 559               2.5670632
## 563              -0.3884372
## 567              -0.3884372
## 569              -0.3884372
## 570              -0.3884372
## 575              -0.3884372
```

```
## 579          2.5670632
## 583         -0.3884372
## 585         -0.3884372
## 586          2.5670632
## 591         -0.3884372
## 595         -0.3884372
## 599         -0.3884372
## 601         -0.3884372
## 602         -0.3884372
## 607         -0.3884372
## 611         -0.3884372
## 615         -0.3884372
## 617         -0.3884372
## 618         -0.3884372
## 623          2.5670632
## 627         -0.3884372
## 631         -0.3884372
## 633         -0.3884372
## 634         -0.3884372
## 639         -0.3884372
## 643         -0.3884372
## 647         -0.3884372
## 649         -0.3884372
## 650         -0.3884372
## 655         -0.3884372
## 659         -0.3884372
## 663         -0.3884372
## 665         -0.3884372
## 666         -0.3884372
## 671         -0.3884372
## 675         -0.3884372
## 679         -0.3884372
## 681         -0.3884372
## 682         -0.3884372
## 687         -0.3884372
## 691         -0.3884372
## 695         -0.3884372
## 697         -0.3884372
## 698         -0.3884372
## 703         -0.3884372
## 707         -0.3884372
## 711         -0.3884372
## 713         -0.3884372
## 714         -0.3884372
## 719         -0.3884372
## 723         -0.3884372
## 727         -0.3884372
## 729         -0.3884372
## 730         -0.3884372
## 735          2.5670632
## 739         -0.3884372
## 743         -0.3884372
## 745         -0.3884372
## 746          2.5670632
```

```
## 751            -0.3884372
## 755            -0.3884372
## 759            -0.3884372
## 761            -0.3884372
## 762            -0.3884372
## 767             2.5670632
## 771            -0.3884372
## 775             2.5670632
## 777             2.5670632
## 778            -0.3884372
## 783            -0.3884372
## 787             2.5670632
## 791            -0.3884372
## 793            -0.3884372
## 794            -0.3884372
## 799            -0.3884372
## 803            -0.3884372
## 807            -0.3884372
## 809            -0.3884372
## 810            -0.3884372
## 815            -0.3884372
## 819            -0.3884372
## 823            -0.3884372
## 825            -0.3884372
## 826            -0.3884372
## 831             2.5670632
## 835            -0.3884372
## 839            -0.3884372
## 841            -0.3884372
## 842            -0.3884372
## 847            -0.3884372
## 851            -0.3884372
## 855            -0.3884372
## 857            -0.3884372
## 858            -0.3884372
## 863            -0.3884372
## 867            -0.3884372
## 871            -0.3884372
## 873            -0.3884372
## 874            -0.3884372
## 879            -0.3884372
## 883            -0.3884372
## 887            -0.3884372
## 889            -0.3884372
## 890            -0.3884372
## 895            -0.3884372
## 899             2.5670632
## 903             2.5670632
## 905            -0.3884372
## 906            -0.3884372
## 911            -0.3884372
## 915            -0.3884372
## 919            -0.3884372
## 921            -0.3884372
```

```
## 922               -0.3884372
## 927                2.5670632
## 931               -0.3884372
## 935               -0.3884372
## 937                2.5670632
## 938               -0.3884372
## 943               -0.3884372
## 947                2.5670632
## 951               -0.3884372
## 953               -0.3884372
## 954               -0.3884372
## 959               -0.3884372
## 963               -0.3884372
## 967               -0.3884372
## 969               -0.3884372
## 970               -0.3884372
## 975               -0.3884372
## 979                2.5670632
## 983               -0.3884372
## 985               -0.3884372
## 986               -0.3884372
## 991               -0.3884372
## 995               -0.3884372
## 999               -0.3884372
## 1001              -0.3884372
## 1002              -0.3884372
## 1007               2.5670632
## 1011              -0.3884372
## 1015               2.5670632
## 1017              -0.3884372
## 1018              -0.3884372
## 1023              -0.3884372
## 1027              -0.3884372
## 1031               2.5670632
## 1033               2.5670632
## 1034              -0.3884372
## 1039              -0.3884372
## 1043               2.5670632
## 1047              -0.3884372
## 1049               2.5670632
## 1050              -0.3884372
## 1055              -0.3884372
## 1059              -0.3884372
## 1063              -0.3884372
## 1065              -0.3884372
## 1066              -0.3884372
## 1071              -0.3884372
## 1075              -0.3884372
## 1079              -0.3884372
## 1081               2.5670632
## 1082              -0.3884372
## 1087              -0.3884372
## 1091              -0.3884372
## 1095              -0.3884372
```

```
## 1097           -0.3884372
## 1098           -0.3884372
## 1103           -0.3884372
## 1107           -0.3884372
## 1111           -0.3884372
## 1113           -0.3884372
## 1114           -0.3884372
## 1119           -0.3884372
## attr(,"scaled:center")
## Anne.veya.baba.en.fazla.ilkokul.mezunu.mu.
##                                  0.3771429
##          Anne.en.fazla.ilkokul.mezunu.mu.
##                                  0.3285714
##          Baba.en.fazla.ilkokul.mezunu.mu.
##                                  0.2542857
##                    Öğrenci.tek.çocuk.mu.
##                                  0.1314286
## attr(,"scaled:scale")
## Anne.veya.baba.en.fazla.ilkokul.mezunu.mu.
##                                  0.4853650
##          Anne.en.fazla.ilkokul.mezunu.mu.
##                                  0.4703662
##          Baba.en.fazla.ilkokul.mezunu.mu.
##                                  0.4360824
##                    Öğrenci.tek.çocuk.mu.
##                                  0.3383522
```

```r
# Fitting Naive Bayes Model
# to training dataset
set.seed(120) #Setting Seed
classifierCl <- naiveBayes(formula(dfSorular), data = trainCl)
classifierCl
```

```
##
## Naive Bayes Classifier for Discrete Predictors
##
## Call:
## naiveBayes.default(x = X, y = Y, laplace = laplace)
##
## A-priori probabilities:
## Y
##         0         1
## 0.6202861 0.3797139
##
## Conditional probabilities:
##    Anne.en.fazla.ilkokul.mezunu.mu.
## Y        [,1]      [,2]
##   0 0.0000000 0.0000000
##   1 0.8869863 0.3171531
##
##    Baba.en.fazla.ilkokul.mezunu.mu.
## Y        [,1]      [,2]
##   0 0.0000000 0.0000000
##   1 0.7294521 0.4450055
```

```
##
##       Öğrenci.tek.çocuk.mu.
## Y         [,1]       [,2]
##   0 0.1132075 0.3171790
##   1 0.1404110 0.3480093
##
##       Öğrenci.3.ve.üstü.kardeş.mi.
## Y         [,1]       [,2]
##   0 0.06079665 0.2392078
##   1 0.14041096 0.3480093
##
##       Anne.ve.baba.boşanmış.mı.
## Y         [,1]       [,2]
##   0 0.05450734 0.2272544
##   1 0.07876712 0.2698374
##
##       Anne.ve.babası.ayrı.mı.
## Y         [,1]       [,2]
##   0 0.05450734 0.2272544
##   1 0.08561644 0.2802772
##
##       Öğrenci.anne.ile.mi.yaşıyor.
## Y         [,1]       [,2]
##   0 0.7589099 0.4281940
##   1 0.5650685 0.4965991
##
##       Öğrenci.baba.ile.mi.yaşıyor.
## Y         [,1]       [,2]
##   0 0.7651992 0.4243193
##   1 0.5102740 0.5007526
##
##       Anne.hayatta.değil
## Y         [,1]       [,2]
##   0 0.00000000 0.0000000
##   1 0.02739726 0.1635183
##
##       Baba.hayatta.değil
## Y          [,1]        [,2]
##   0 0.006289308 0.07913838
##   1 0.010273973 0.10101169
##
##       Anne.ve.babası.hayatta.olmayan
## Y   [,1] [,2]
##   0    0    0
##   1    0    0
##
##       Dede.Nene.ile.Yaşayan
## Y         [,1]       [,2]
##   0 0.01257862 0.1115638
##   1 0.01027397 0.1010117
##
##       Ailesinde.süreğen.hastalığı.olan
## Y         [,1]       [,2]
##   0 0.06708595 0.2504334
```

```
##   1 0.10616438 0.3085767
##
##     Öğrencide.Süreğen.hastalık.var.mı.
## Y          [,1]      [,2]
##   0 0.02096436 0.1434154
##   1 0.05136986 0.2211300
##
##     Başarılı.Mı
## Y          [,1]      [,2]
##   0 0.4968553 0.5005150
##   1 0.5034247 0.5008466
```

```r
# Predicting on test data'
yPred <- predict(classifierCl, newdata = testCl)
yPred
```

```
##   [1] 0 1 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0
##  [38] 0 0 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 1 1 0 1 0 1 0 0 0 1 1 0 1 0 0 1 1 1 1 0 0 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0
## [112] 1 1 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0
## [149] 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
## [186] 1 0 0 1 0 1 0 0 0 0 1 1 1 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1
## [223] 0 0 1 1 1 0 1 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0
## [260] 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0
## [297] 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 1 0 1 0
## [334] 0 0 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0
## Levels: 0 1
```

```r
# Confusion Matrix
cm <- table(testCl$Başarılı.Mı, yPred)
cm
```

```
##    yPred
##       0    1
##   0 137   39
##   1 133   41
```

```r
# Model Evaluation
confusionMatrix(cm)
```

```
## Confusion Matrix and Statistics
##
##    yPred
##       0    1
##   0 137   39
##   1 133   41
##
##                Accuracy : 0.5086
##                  95% CI : (0.4549, 0.5621)
##     No Information Rate : 0.7714
##     P-Value [Acc > NIR] : 1
##
```

260

```
##                 Kappa : 0.0141
##
##   Mcnemar's Test P-Value : 1.33e-12
##
##           Sensitivity : 0.5074
##           Specificity : 0.5125
##        Pos Pred Value : 0.7784
##        Neg Pred Value : 0.2356
##            Prevalence : 0.7714
##        Detection Rate : 0.3914
##  Detection Prevalence : 0.5029
##     Balanced Accuracy : 0.5100
##
##       'Positive' Class : 0
##
```

5. At which grade level is the educational status of the parents more effective?

Answer 5

```r
#df$Anne.en.fazla.ilkokul.mezunu.mu.
df$`Baba en fazla ilkokul mezunu mu?`
```

```
## NULL
```

```r
#df1 <- transform(df, Anne.ve.Baba.en.fazla.ilkokul.mezunu.Mu = ifelse("Anne en fazla ilkokul mezunu mu

#data.frame(df1$Anne.en.fazla.ilkokul.mezunu.mu., df1$Baba.en.fazla.ilkokul.mezunu.mu., df1$Anne.ve.Bab

dt9 <- filter(dt9, `Anne veya baba en fazla ilkokul mezunu mu?` == 0)
dt10 <- filter(dt10, `Anne veya baba en fazla ilkokul mezunu mu?` == 0)
dt11 <- filter(dt11, `Anne veya baba en fazla ilkokul mezunu mu?` == 0)
dt12 <- filter(dt12, `Anne veya baba en fazla ilkokul mezunu mu?` == 0)

dt9Mean <- mean(dt9$ORTALAMA)
dt10Mean <- mean(dt10$ORTALAMA)
dt11Mean <- mean(dt11$ORTALAMA)
dt12Mean <- mean(dt12$ORTALAMA)

maxSinif <- max(dt9Mean, dt10Mean, dt11Mean, dt12Mean)
maxSinif
```

```
## [1] 77.59236
```

```r
if (dt9Mean > dt10Mean && dt9Mean > dt11Mean && dt9Mean > dt12Mean) {
  print("The education level of the parents affected the 9th grades the most.")
} else if (dt10Mean > dt9Mean && dt10Mean > dt11Mean && dt10Mean > dt12Mean) {
  print("The education level of the parents affected the 10th grades the most.")
} else if (dt11Mean > dt9Mean && dt11Mean > dt10Mean && dt11Mean > dt12Mean) {
  print("The education level of the parents affected the 11th grades the most.")
} else {
  print("The education level of the parents affected the 12th grades the most.")
}
```

```
## [1] "The education level of the parents affected the 12th grades the most."
```