C50_HEX100

Daniel Rodriguez

4/12/2020

```
rm(list=ls())
setwd("~")
options(warn=-1)
options(repr.plot.width=10, repr.plot.height=15)
```

Cargamos la paquetería necesaria

```
suppressWarnings(suppressMessages(library(ggplot2)))
suppressWarnings(suppressMessages(library(tidyverse)))
suppressWarnings(suppressMessages(library(dplyr)))
suppressWarnings(suppressMessages(library(lattice)))
suppressWarnings(suppressMessages(library(C50)))
suppressWarnings(suppressMessages(library(caret)))
suppressWarnings(suppressMessages(library(gmodels)))
suppressWarnings(suppressMessages(library(irr)))
suppressWarnings(suppressMessages(library(psych)))
suppressWarnings(suppressMessages(library(kknn)))
suppressWarnings(suppressMessages(library(randomForest)))
suppressWarnings(suppressMessages(library(e1071)))
suppressWarnings(suppressMessages(library(caTools)))
suppressWarnings(suppressMessages(library(mlbench)))
suppressWarnings(suppressMessages(library(ranger)))
suppressWarnings(suppressMessages(library(ROCR)))
suppressWarnings(suppressMessages(library(pROC)))
suppressWarnings(suppressMessages(library(kknn)))
suppressWarnings(suppressMessages(library(ada)))
suppressWarnings(suppressMessages(library(rpart)))
suppressWarnings(suppressMessages(library(MASS)))
suppressWarnings(suppressMessages(library(class)))
```

Cargamos el conjunto de datos de la malla hexagonal con radio de 100 metros

```
setwd("/Users/daniel.rodriguez/Documents/ACC/ACC_PROOF/ACC1/final_da
tasets")
train100 <- read.csv("trainall_fin.csv", sep = ",")
```

Quitamos las columnas que no nos interesan y convertimos la variable objetivo en Factor

```
train100$SINIESTRO <- factor(train100$SINIESTRO, levels = c(0,1),
                                 labels = c("NO", "SI"))
```

Primero corremos el algoritmo para ver el árbol de decisión

```
set.seed(123)

tree_100_C50 <- C5.0(SINIESTRO~.,data = train100, trials = 30)
tree_100_C50
```

```
##
## Call:
## C5.0.formula(formula = SINIESTRO ~ ., data = train100, trials = 3
0)
##
## Classification Tree
## Number of samples: 94510
## Number of predictors: 67
##
## Number of boosting iterations: 30
## Average tree size: 74.4
##
## Non-standard options: attempt to group attributes
```

```
summary(tree_100_C50)
```

```
##
## Call:
## C5.0.formula(formula = SINIESTRO ~ ., data = train100, trials = 3
0)
##
```

```
##
## C5.0 [Release 2.07 GPL Edition]       Tue Apr 14 13:58:03 2020
## -------------------------------
##
## Class specified by attribute `outcome'
##
## Read 94510 cases (68 attributes) from undefined.data
##
## -----  Trial 0:  -----
##
## Decision tree:
##
## interseccion <= 0:
## :...traffic_signals > 0: SI (48/8)
## :    traffic_signals <= 0:
## :    :...cruce_peligroso > 0: SI (43/9)
## :        cruce_peligroso <= 0:
## :        :...metrobus > 0: SI (57/17)
## :            metrobus <= 0:
## :            :...metro > 0: SI (56/20)
## :                metro <= 0:
## :                :...rtp > 0:
## :                    :...PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (7
## 1/14)
## :                    :   PER_ATRAPADO_DESBARRANCADO_100 <= 1:
## :                    :   :...ACC_S_LESION_100 <= 30: NO (256/83)
## :                    :       ACC_S_LESION_100 > 30: SI (287/119)
## :                    rtp <= 0:
## :                    :...trolebus > 0:
## :                        :...rtp_300 <= 0: NO (28/4)
## :                        :   rtp_300 > 0:
## :                        :   :...ATROPELLADO_200 <= 13: NO (13/2)
## :                        :       ATROPELLADO_200 > 13: SI (47/13)
## :                        trolebus <= 0:
## :                        :...bar > 0:
## :                            :...nightclub_300 <= 0: NO (43/17)
## :                            :   nightclub_300 > 0: SI (11/1)
## :                            bar <= 0:
## :                            :...ATROPELLADO_100 > 52: [S1]
## :                                ATROPELLADO_100 <= 52:
## :                                :...ATROPELLADO_FATAL_200 > 5:
## :                                    :...OTROS_100 <= 0: NO (42/13
```

```
)
## :                                                     :   OTROS_100 > 0: SI (14/2)
## :                                             ATROPELLADO_FATAL_200 <= 5:
## :                                             :...hotel_300 <= 4: NO (46015
/4769)
## :                                                 hotel_300 > 4:
## :                                                 :...restaurant_300 <= 26:
NO (149/60)
## :                                                     restaurant_300 > 26:
SI (87/32)
## interseccion > 0:
## :...ACC_S_LESION_100 <= 4:
##     :...ACC_S_LESION_100 <= 0: NO (4482/313)
##     :   ACC_S_LESION_100 > 0:
##     :   :...rtp > 0: SI (90/30)
##     :       rtp <= 0:
##     :       :...ACC_S_LESION_100 <= 1:
##     :           :...ACC_C_LESION_100 <= 1: NO (1708/489)
##     :           :   ACC_C_LESION_100 > 1:
##     :           :   :...ATROPELLADO_100 > 0: SI (150/70)
##     :           :       ATROPELLADO_100 <= 0:
##     :           :       :...ACC_S_LESION_200 <= 22: NO (98/27)
##     :           :           ACC_S_LESION_200 > 22: SI (22/7)
##     :           ACC_S_LESION_100 > 1:
##     :           :...interseccion <= 2:
##     :               :...ACC_C_LESION_100 <= 1:
##     :               :   :...ATROPELLADO_100 <= 5: NO (1677/599)
##     :               :   :   ATROPELLADO_100 > 5: SI (42/15)
##     :               :   ACC_C_LESION_100 > 1:
##     :               :   :...ACC_S_LESION_100 <= 3: NO (535/245)
##     :               :       ACC_S_LESION_100 > 3: SI (277/125)
##     :               interseccion > 2:
##     :               :...ATROPELLADO_100 > 2: SI (372/129)
##     :                   ATROPELLADO_100 <= 2:
##     :                   :...ACC_C_LESION_100 > 0: SI (900/403)
##     :                       ACC_C_LESION_100 <= 0:
##     :                       :...PER_ATRAPADO_DESBARRANCADO_100 >
0: SI (37/13)
##     :                           PER_ATRAPADO_DESBARRANCADO_100 <=
0: [S2]
##     ACC_S_LESION_100 > 4:
##     :...traffic_signals > 0: SI (633/9)
```

```
##            traffic_signals <= 0:
##            :...ACC_S_LESION_100 > 17: SI (21788/3274)
##                ACC_S_LESION_100 <= 17:
##                :...rtp > 0: SI (510/54)
##                    rtp <= 0:
##                    :...restaurant > 0: SI (38/4)
##                        restaurant <= 0:
##                        :...interseccion > 2: SI (6369/1674)
##                            interseccion <= 2:
##                            :...ATROPELLADO_100 > 21: SI (37)
##                                ATROPELLADO_100 <= 21:
##                                :...PER_ATRAPADO_DESBARRANCADO_100 >
2: SI (38/6)
##                                    PER_ATRAPADO_DESBARRANCADO_100 <=
2:
##                                    :...hospital_300 > 0: SI (210/54)
##                                        hospital_300 <= 0:
##                                        :...ACC_S_LESION_100 > 8: [S3
]
##                                            ACC_S_LESION_100 <= 8:
##                                            :...VEH_ATRAPADO_100 > 0:
SI (61/20)
##                                                VEH_ATRAPADO_100 <= 0
:
##                                                :...ACC_C_LESION_100
> 4: [S4]
##                                                    ACC_C_LESION_100
<= 4:
##                                                    :...OTROS_200 > 1
: SI (57/19)
##                                                        OTROS_200 <=
1: [S5]
##
## SubTree [S1]
##
## PER_ATRAPADO_DESBARRANCADO_100 <= 6: NO (347/148)
## PER_ATRAPADO_DESBARRANCADO_100 > 6: SI (38/11)
##
## SubTree [S2]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 0: SI (83/34)
## PER_ATRAPADO_DESBARRANCADO_200 <= 0:
```

```
## :...VOLCADURA_200 <= 2: NO (635/250)
##      VOLCADURA_200 > 2: SI (49/20)
##
## SubTree [S3]
##
## VEH_DESBARRANCADO_200 <= 0: SI (3678/1333)
## VEH_DESBARRANCADO_200 > 0:
## :...traffic_signals_300 > 0: SI (5)
##      traffic_signals_300 <= 0:
##      :...ATROPELLADO_100 <= 1: SI (14/1)
##           ATROPELLADO_100 > 1: NO (75/29)
##
## SubTree [S4]
##
## MOTOCICLISTA_100 <= 2: SI (348/136)
## MOTOCICLISTA_100 > 2: NO (27/8)
##
## SubTree [S5]
##
## ATROPELLADO_FATAL_200 > 1: NO (33/8)
## ATROPELLADO_FATAL_200 <= 1:
## :...ACC_S_LESION_100 <= 7:
##      :...PER_ATRAPADO_DESBARRANCADO_200 <= 0: NO (1199/549)
##      :    PER_ATRAPADO_DESBARRANCADO_200 > 0:
##      :    :...PER_ATRAPADO_DESBARRANCADO_100 <= 1: SI (203/87)
##      :         PER_ATRAPADO_DESBARRANCADO_100 > 1: NO (16/4)
##      ACC_S_LESION_100 > 7:
##      :...ATROPELLADO_FATAL_200 > 0: SI (40/11)
##           ATROPELLADO_FATAL_200 <= 0:
##           :...ATROPELLADO_100 > 4: SI (40/10)
##                ATROPELLADO_100 <= 4:
##                :...rtp_300 > 4: NO (75/28)
##                     rtp_300 <= 4:
##                     :...ACC_C_LESION_100 <= 3: SI (181/72)
##                          ACC_C_LESION_100 > 3: NO (26/8)
##
## -----  Trial 1:  -----
##
## Decision tree:
##
## ACC_S_LESION_100 <= 0: NO (20756.7/991.5)
## ACC_S_LESION_100 > 0:
```

```
## :...traffic_signals > 0: SI (567/34.4)
##     traffic_signals <= 0:
##     :...cruce_peligroso > 0: SI (286.8/22.3)
##         cruce_peligroso <= 0:
##         :...interseccion <= 0:
##             :...supermarket > 0: SI (101.2/32)
##             :   supermarket <= 0:
##             :   :...ACC_S_LESION_100 <= 24:
##             :       :...rtp <= 0: NO (15949.5/4638.5)
##             :       :   rtp > 0: SI (240.6/103.1)
##             :       ACC_S_LESION_100 > 24:
##             :       :...crossing > 0: SI (43.1/12.8)
##             :           crossing <= 0:
##             :           :...restaurant > 0: SI (333.9/126.2)
##             :               restaurant <= 0:
##             :               :...ACC_S_LESION_100 <= 54: NO (5531.
1/2323.1)
##             :                   ACC_S_LESION_100 > 54:
##             :                   :...school > 0: SI (50.4/13.6)
##             :                       school <= 0:
##             :                       :...metro > 0: NO (59.2/20.8)
##             :                           metro <= 0:
##             :                           :...rtp > 0: NO (293.1/11
5.1)
##             :                               rtp <= 0:
##             :                               :...MOTOCICLISTA_200
> 33: SI (42.8/7.2)
##             :                                   MOTOCICLISTA_200
<= 33: [S1]
##             interseccion > 0:
##             :...metrobus > 0: SI (105.9/2)
##                 metrobus <= 0:
##                 :...rtp > 0: SI (2310.2/380.4)
##                     rtp <= 0:
##                     :...bar > 0: SI (89.3/12.1)
##                         bar <= 0:
##                         :...bank > 0: SI (168.1/19)
##                             bank <= 0:
##                             :...crossing > 2: SI (42.5/5.6)
##                                 crossing <= 2:
##                                 :...ACC_S_LESION_100 > 18:
##                                     :...interseccion > 2: SI (774
```

```
3.8/1843.4)
##                                                    :   interseccion <= 2: [S2]
##                                             ACC_S_LESION_100 <= 18:
##                                             :...ATROPELLADO_100 > 19: SI
(90.9/15)
##                                                 ATROPELLADO_100 <= 19:
##                                                 :...school > 0: SI (58.3/
17)
##                                                    school <= 0:
##                                                    :...metro_300 > 2: SI
(36.1/10.5)
##                                                       metro_300 <= 2: [
S3]
##
## SubTree [S1]
##
## ATROPELLADO_FATAL_100 > 2: SI (199.4/66)
## ATROPELLADO_FATAL_100 <= 2:
## :...school_300 > 4: NO (120.1/45.3)
##      school_300 <= 4:
##      :...ATROPELLADO_100 > 63: SI (224.8/74.1)
##          ATROPELLADO_100 <= 63:
##          :...VOLCADURA_100 > 4: SI (1068.7/449.2)
##              VOLCADURA_100 <= 4:
##              :...rtp_300 <= 4: NO (1683.9/770.4)
##                  rtp_300 > 4: SI (1791.1/820.6)
##
## SubTree [S2]
##
## VEH_DESBARRANCADO_200 > 1: NO (27.4/7.2)
## VEH_DESBARRANCADO_200 <= 1:
## :...bar_300 > 0: SI (1012/218.5)
##      bar_300 <= 0:
##      :...supermarket > 0: SI (40.9/8.1)
##          supermarket <= 0:
##          :...ACC_S_LESION_200 <= 58: NO (1878.6/875)
##              ACC_S_LESION_200 > 58: SI (7644.2/2962.4)
##
## SubTree [S3]
##
## VEH_DESBARRANCADO_200 > 1: NO (75.7/23.7)
## VEH_DESBARRANCADO_200 <= 1:
```

```
## :...PER_ATRAPADO_DESBARRANCADO_200 > 5: SI (60.1/16.6)
##      PER_ATRAPADO_DESBARRANCADO_200 <= 5:
##      :...VOLCADURA_100 > 5: NO (163.6/54.9)
##          VOLCADURA_100 <= 5:
##          :...VOLCADURA_100 > 4: SI (40.2/9.3)
##              VOLCADURA_100 <= 4:
##              :...VEH_DESBARRANCADO_100 > 0: SI (258.5/102.7)
##                  VEH_DESBARRANCADO_100 <= 0:
##                  :...rtp_300 > 2:
##                      :...VEH_ATRAPADO_200 > 2: SI (30.1/4)
##                      :   VEH_ATRAPADO_200 <= 2:
##                      :   :...hospital_300 > 0: SI (287.4/129.7)
##                      :       hospital_300 <= 0:
##                      :       :...MOTOCICLISTA_100 <= 0:
##                      :           :...ATROPELLADO_100 > 4: SI (828.
6/388.1)
##                      :           :   ATROPELLADO_100 <= 4:
##                      :           :   :...restaurant_300 <= 0: NO (
4093.5/1766.2)
##                      :           :       restaurant_300 > 0: SI (5
51.1/261.9)
##                      :           MOTOCICLISTA_100 > 0:
##                      :           :...ACC_PRENSADO_200 > 0: SI (194
.3/83.7)
##                      :               ACC_PRENSADO_200 <= 0:
##                      :               :...ACC_S_LESION_100 <= 1: SI
(103.1/37.2)
##                      :                   ACC_S_LESION_100 > 1: NO
(3240.8/1523.5)
##                      rtp_300 <= 2:
##                      :...metro_300 > 0: SI (115.3/35.1)
##                          metro_300 <= 0:
##                          :...ATROPELLADO_200 > 11:
##                              :...traffic_signals_300 <= 4: SI (357
1/1502.5)
##                              :   traffic_signals_300 > 4: NO (225.
8/99.3)
##                              ATROPELLADO_200 <= 11:
##                              :...ACC_FATAL_200 > 1: NO (37.5/11.2)
##                                  ACC_FATAL_200 <= 1:
##                                  :...ACC_C_LESION_100 <= 0: SI (33
48.3/1584.5)
```

```
##                                              ACC_C_LESION_100 > 0:
##                                              :...interseccion <= 2:
##                                                  :...ACC_S_LESION_100 <= 7
: SI (2208.7/936.9)
##                                                  :   ACC_S_LESION_100 > 7:
NO (1521/615.1)
##                                                  interseccion > 2:
##                                                  :...hospital_300 > 0: SI
(29.7/8.1)
##                                                      hospital_300 <= 0:
##                                                      :...ACC_S_LESION_100
<= 9: NO (1997.8/807.8)
##                                                          ACC_S_LESION_100
> 9: SI (936.7/388.5)
##
## -----  Trial 2:  -----
##
## Decision tree:
##
## ACC_S_LESION_100 <= 0: NO (18078.6/1233.9)
## ACC_S_LESION_100 > 0:
## :...traffic_signals > 0: SI (496.7/42.8)
##     traffic_signals <= 0:
##     :...cruce_peligroso > 0: SI (253.1/27.7)
##         cruce_peligroso <= 0:
##         :...metrobus > 0: SI (165.4/37.4)
##             metrobus <= 0:
##             :...turning_circle > 0: NO (81.3/19.6)
##                 turning_circle <= 0:
##                 :...rtp > 0:
##                     :...ACC_S_LESION_100 <= 7: NO (333.6/138.9)
##                     :   ACC_S_LESION_100 > 7: SI (2641.8/698)
##                     rtp <= 0:
##                     :...bank > 0: SI (300/81.3)
##                         bank <= 0:
##                         :...crossing > 2: SI (61.2/15.5)
##                             crossing <= 2:
##                             :...interseccion <= 0:
##                                 :...nightclub_300 > 0: SI (346.6/
144.6)
##                                 :   nightclub_300 <= 0:
##                                 :   :...PER_ATRAPADO_DESBARRANCAD
```

```
O_100 > 0:
##                                   :        :...ACC_C_LESION_200 <= 3
: NO (182.3/42.8)
##                                   :        :   ACC_C_LESION_200 > 3:
##                                   :        :   :...rtp_300 > 4: NO (
1962.9/940.2)
##                                   :        :       rtp_300 <= 4: [S1
]
##                                   :        PER_ATRAPADO_DESBARRANCAD
O_100 <= 0:
##                                   :        :...school_300 > 10: SI (
45.3/13.3)
##                                   :            school_300 <= 10:
##                                   :            :...ATROPELLADO_100 >
51: SI (264.7/110.7)
##                                   :                ATROPELLADO_100 <
= 51: [S2]
##                               interseccion > 0:
##                               :...hotel > 0: SI (69.7/12.6)
##                                   hotel <= 0:
##                                   :...supermarket > 0: SI (115.
4/24)
##                                       supermarket <= 0:
##                                       :...trolebus > 0: SI (140
.7/33.8)
##                                           trolebus <= 0:
##                                           :...bar_300 > 0: SI (
1685.6/456.1)
##                                               bar_300 <= 0:
##                                               :...school > 0: S
I (129.4/39.1)
##                                                   school <= 0:
##                                                   :...ACC_C_LES
ION_100 <= 0: [S3]
##                                                       ACC_C_LES
ION_100 > 0:
##                                                       :...inter
seccion > 2: [S4]
##                                                           inter
seccion <= 2: [S5]
##
## SubTree [S1]
```

```
##
## VEH_DESBARRANCADO_200 <= 0: SI (2535.9/1116.1)
## VEH_DESBARRANCADO_200 > 0: NO (89.3/33)
##
## SubTree [S2]
##
## ACC_S_LESION_100 <= 11: NO (9595.9/3178.5)
## ACC_S_LESION_100 > 11:
## :...VEH_DESBARRANCADO_200 > 0: SI (238.7/105.5)
##      VEH_DESBARRANCADO_200 <= 0:
##      :...ACC_FATAL_200 > 0:
##          :...ACC_S_LESION_100 <= 51: SI (1306.6/602.6)
##          :    ACC_S_LESION_100 > 51: NO (1189.8/517.9)
##          ACC_FATAL_200 <= 0:
##          :...VEH_ATRAPADO_100 > 1: SI (67.6/26.1)
##              VEH_ATRAPADO_100 <= 1:
##              :...VEH_ATRAPADO_200 > 1: NO (164.8/53.3)
##                  VEH_ATRAPADO_200 <= 1:
##                  :...OTROS_200 > 3: SI (50/18.7)
##                      OTROS_200 <= 3:
##                      :...VOLCADURA_200 > 28: SI (45.9/15.4)
##                          VOLCADURA_200 <= 28:
##                          :...ACC_S_LESION_100 > 57: NO (1731.4/667
## .7)
##                              ACC_S_LESION_100 <= 57:
##                              :...metro_300 > 2: SI (62.5/21.7)
##                                  metro_300 <= 2:
##                                  :...ATROPELLADO_200 > 69: SI (174
## .5/72.5)
##                                      ATROPELLADO_200 <= 69:
##                                      :...ATROPELLADO_FATAL_100 <=
## 0: NO (6346.4/2750.8)
##                                          ATROPELLADO_FATAL_100 > 0
## : SI (560.7/248.1)
##
## SubTree [S3]
##
## rtp_300 <= 2: NO (4500.6/1785.8)
## rtp_300 > 2: SI (2110.2/971.1)
##
## SubTree [S4]
##
```

```
## ACC_C_LESION_100 > 12: SI (3742.7/1041.6)
## ACC_C_LESION_100 <= 12:
## :...ACC_S_LESION_100 > 6: SI (8812.2/3517.7)
##      ACC_S_LESION_100 <= 6:
##      :...restaurant_300 <= 0: SI (3080.3/1514.1)
##          restaurant_300 > 0: NO (201.2/66.9)
##
## SubTree [S5]
##
## restaurant_300 > 12: SI (313.8/85.8)
## restaurant_300 <= 12:
## :...ACC_C_LESION_100 > 148: NO (61/15.7)
##      ACC_C_LESION_100 <= 148:
##      :...ATROPELLADO_200 > 119: SI (175.6/46)
##          ATROPELLADO_200 <= 119:
##          :...ACC_FATAL_200 > 4: SI (38.5/9.5)
##              ACC_FATAL_200 <= 4:
##              :...ACC_S_LESION_100 <= 1: NO (594.3/227.6)
##                  ACC_S_LESION_100 > 1:
##                  :...school_300 > 2: SI (649.8/267.9)
##                      school_300 <= 2:
##                      :...ATROPELLADO_FATAL_200 > 2: NO (643.5/286.
5)
##                          ATROPELLADO_FATAL_200 <= 2:
##                          :...VOLCADURA_100 > 12: NO (288/113.9)
##                              VOLCADURA_100 <= 12:
##                              :...VEH_ATRAPADO_200 > 2: SI (125.1/4
3.9)
##                                  VEH_ATRAPADO_200 <= 2:
##                                  :...ACC_C_LESION_200 > 102: SI (6
55.6/250.9)
##                                      ACC_C_LESION_200 <= 102:
##                                      :...MOTOCICLISTA_100 > 8: NO
(169.4/64.4)
##                                          MOTOCICLISTA_100 <= 8:
##                                          :...ACC_C_LESION_100 > 52
: SI (126.8/37.8)
##                                              ACC_C_LESION_100 <= 5
2:
##                                              :...OTROS_200 > 2: NO
(238.1/99.2)
##                                                  OTROS_200 <= 2:
```

```
##                                                   :...OTROS_100 > 1
: SI (119.7/41)
##                                                       OTROS_100 <=
1: [S6]
##
## SubTree [S6]
##
## ACC_PRENSADO_100 > 0: NO (350.5/156.3)
## ACC_PRENSADO_100 <= 0:
## :...VOLCADURA_100 > 2: NO (1066.5/493.6)
##     VOLCADURA_100 <= 2:
##     :...ACC_FATAL_100 > 0: SI (511.9/214.8)
##         ACC_FATAL_100 <= 0:
##         :...restaurant_300 > 0: SI (2095.4/922.4)
##             restaurant_300 <= 0:
##             :...traffic_signals_300 > 8: NO (177.8/71.4)
##                 traffic_signals_300 <= 8:
##                 :...ACC_S_LESION_100 > 18:
##                     :...ACC_S_LESION_200 <= 58: SI (1564.8/567.4)
##                     :   ACC_S_LESION_200 > 58: NO (2577.7/1238.1)
##                     ACC_S_LESION_100 <= 18:
##                     :...hospital_300 > 0: NO (188.1/76.8)
##                         hospital_300 <= 0:
##                         :...rtp_300 > 2: SI (3154.1/1393.3)
##                             rtp_300 <= 2:
##                             :...school_300 > 0: NO (310.2/129.8)
##                                 school_300 <= 0:
##                                 :...ATROPELLADO_100 > 6: NO (527.
4/215.7)
##                                     ATROPELLADO_100 <= 6:
##                                     :...metro_300 > 0: SI (33.6/7
.6)
##                                         metro_300 <= 0:
##                                         :...ACC_S_LESION_100 <= 4
: NO (1127.4/497.3)
##                                             ACC_S_LESION_100 > 4:
SI (2664/1315)
##
## -----  Trial 3:  -----
##
## Decision tree:
##
```

```
## ACC_S_LESION_200 <= 0:
## :...ACC_C_LESION_100 <= 0: NO (10536/255.1)
## :    ACC_C_LESION_100 > 0: SI (467.2/220.8)
## ACC_S_LESION_200 > 0:
## :...traffic_signals > 0: SI (446/49.3)
##      traffic_signals <= 0:
##      :...cruce_peligroso > 0: SI (228.9/31.9)
##          cruce_peligroso <= 0:
##          :...trolebus > 0: SI (364.8/112.7)
##              trolebus <= 0:
##              :...kindergarten > 0: SI (45.9/12)
##                  kindergarten <= 0:
##                  :...metro > 0: SI (137.4/40.6)
##                      metro <= 0:
##                      :...rtp > 0:
##                          :...interseccion <= 0: NO (879.7/385.3)
##                          :    interseccion > 0: SI (1930.2/511.2)
##                          rtp <= 0:
##                          :...bar > 0: SI (146/46.5)
##                              bar <= 0:
##                              :...supermarket > 0: SI (223/81.4)
##                                  supermarket <= 0:
##                                  :...ACC_S_LESION_100 <= 18:
##                                      :...bar_300 > 8: NO (36.9/10.
9)
##                                      :    bar_300 <= 8:
##                                      :    :...ACC_S_LESION_100 <= 1
:
##                                      :        :...interseccion <= 0
: NO (5139.7/847.3)
##                                      :        :    interseccion > 0:
##                                      :        :    :...crossing_300
> 4: NO (59.7/6.5)
##                                      :        :        crossing_300
<= 4: [S1]
##                                      :        ACC_S_LESION_100 > 1:
##                                      :        :...interseccion <= 0
:
##                                      :            :...school_300 >
8: SI (37.9/10.3)
##                                      :            :    school_300 <=
8: [S2]
```

```
##                                    :            interseccion > 0:
[S3]
##                               ACC_S_LESION_100 > 18:
##                               :...interseccion > 0:
##                                   :...restaurant_300 > 30:
SI (270.4/37.7)
##                                   :   restaurant_300 <= 30:
[S4]
##                                   interseccion <= 0:
##                                   :...MOTOCICLISTA_200 > 35
: SI (28.5/4.5)
##                                       MOTOCICLISTA_200 <= 3
5: [S5]
##
## SubTree [S1]
##
## VOLCADURA_100 > 0: SI (387.2/155.4)
## VOLCADURA_100 <= 0:
## :...PER_ATRAPADO_DESBARRANCADO_100 <= 0: NO (4143.5/1509.4)
##     PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (127.7/52.9)
##
## SubTree [S2]
##
## ACC_FATAL_200 > 2: SI (78.1/27.5)
## ACC_FATAL_200 <= 2:
## :...school > 0: SI (44.3/16.7)
##     school <= 0:
##     :...VOLCADURA_100 > 2: SI (651.6/302.8)
##         VOLCADURA_100 <= 2:
##         :...crossing_300 > 8: SI (154.2/63.5)
##             crossing_300 <= 8:
##             :...VOLCADURA_100 > 1: NO (343.7/126.3)
##                 VOLCADURA_100 <= 1:
##                 :...VEH_DESBARRANCADO_200 > 0: NO (228.2/73.3)
##                     VEH_DESBARRANCADO_200 <= 0:
##                     :...ATROPELLADO_FATAL_200 > 2: SI (109.9/46.6
)
##                         ATROPELLADO_FATAL_200 <= 2:
##                         :...ACC_PRENSADO_200 > 1: NO (28.3/5.1)
##                             ACC_PRENSADO_200 <= 1:
##                             :...MOTOCICLISTA_200 <= 3: NO (7184.5
/2865.2)
```

```
##                                          MOTOCICLISTA_200 > 3:
##                                          :...OTROS_200 > 2: NO (42.6/10.9)
##                                              OTROS_200 <= 2:
##                                              :...VOLCADURA_100 <= 0: NO (1
953.4/914.3)
##                                                  VOLCADURA_100 > 0: SI (42
1.5/189)
##
## SubTree [S3]
##
## ATROPELLADO_100 > 24: SI (28.1)
## ATROPELLADO_100 <= 24:
## :...bar_300 > 2: SI (42.5/11.7)
##      bar_300 <= 2:
##      :...ATROPELLADO_FATAL_100 > 1: NO (61.7/18.3)
##          ATROPELLADO_FATAL_100 <= 1:
##          :...ACC_PRENSADO_200 > 1: SI (124.7/43.6)
##              ACC_PRENSADO_200 <= 1:
##              :...MOTOCICLISTA_100 <= 0:
##                  :...VEH_ATRAPADO_200 > 2: SI (33.3/7.9)
##                  :   VEH_ATRAPADO_200 <= 2:
##                  :   :...OTROS_100 > 0: SI (764/357.2)
##                  :       OTROS_100 <= 0:
##                  :       :...interseccion > 8: SI (85.3/32.4)
##                  :           interseccion <= 8:
##                  :           :...PER_ATRAPADO_DESBARRANCADO_200 >
0: NO (2458.2/1056.7)
##                  :               PER_ATRAPADO_DESBARRANCADO_200 <=
0:
##                  :               :...rtp_300 > 2: NO (4493.6/2007.
3)
##                  :                   rtp_300 <= 2:
##                  :                   :...traffic_signals_300 > 6:
SI (121/42.3)
##                  :                       traffic_signals_300 <= 6:
##                  :                       :...ACC_FATAL_100 > 0: NO
(130.1/51.6)
##                  :                           ACC_FATAL_100 <= 0:
##                  :                           :...ATROPELLADO_100 >
4: SI (1014.3/451.8)
##                  :                               ATROPELLADO_100 <
= 4: [S6]
```

```
##                         MOTOCICLISTA_100 > 0:
##                         :...PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (113.4
/36.9)
##                         PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##                         :...VOLCADURA_200 > 23: NO (41/9.5)
##                         VOLCADURA_200 <= 23:
##                         :...ATROPELLADO_FATAL_100 > 0: NO (383.1/
164.2)
##                         ATROPELLADO_FATAL_100 <= 0:
##                         :...ATROPELLADO_FATAL_200 > 1: SI (21
2.6/82.3)
##                         ATROPELLADO_FATAL_200 <= 1:
##                         :...school_300 > 0: SI (903.8/398
)
##                         school_300 <= 0:
##                         :...ACC_PRENSADO_100 > 0: SI
(75.5/28.8)
##                         ACC_PRENSADO_100 <= 0:
##                         :...VEH_ATRAPADO_100 > 0:
NO (265.7/115.6)
##                         VEH_ATRAPADO_100 <= 0
:
##                         :...ACC_C_LESION_100
<= 0: SI (910.4/394.3)
##                         ACC_C_LESION_100
> 0:
##                         :...interseccion
<= 2: NO (3673.6/1718)
##                         interseccion
> 2: [S7]
##
## SubTree [S4]
##
## VEH_DESBARRANCADO_100 > 0: NO (176.3/73.5)
## VEH_DESBARRANCADO_100 <= 0:
## :...crossing > 0: SI (73.1/17.4)
##      crossing <= 0:
##      :...bank > 0: SI (101.2/23.2)
##          bank <= 0:
##          :...hotel_300 > 0: SI (1326/412.4)
##              hotel_300 <= 0:
##              :...nightclub_300 > 0: NO (100.5/48.4)
```

```
##                         nightclub_300 <= 0:
##                         :...school > 0: SI (62.1/14.5)
##                             school <= 0:
##                             :...ATROPELLADO_200 > 22: SI (8943.7/3399.7)
##                                 ATROPELLADO_200 <= 22:
##                                 :...VEH_ATRAPADO_100 > 1: SI (65.9/15.2)
##                                     VEH_ATRAPADO_100 <= 1:
##                                     :...rtp_300 <= 0: SI (3009.8/1225.6)
##                                         rtp_300 > 0:
##                                         :...MOTOCICLISTA_200 > 10: NO (25
4.2/106.3)
##                                             MOTOCICLISTA_200 <= 10:
##                                             :...MOTOCICLISTA_100 > 7: SI
(30.1/4.4)
##                                                 MOTOCICLISTA_100 <= 7:
##                                                 :...MOTOCICLISTA_200 <= 0
: SI (274.7/100.6)
##                                                     MOTOCICLISTA_200 > 0:
##                                                     :...ACC_S_LESION_200
<= 34: NO (306.3/126.6)
##                                                         ACC_S_LESION_200
> 34: [S8]
##
## SubTree [S5]
##
## traffic_signals_300 > 16: NO (410.2/151.2)
## traffic_signals_300 <= 16:
## :...PER_ATRAPADO_DESBARRANCADO_100 > 3: SI (639.8/287.7)
##     PER_ATRAPADO_DESBARRANCADO_100 <= 3:
##     :...ACC_S_LESION_100 > 463: SI (31/5.1)
##         ACC_S_LESION_100 <= 463:
##         :...ACC_PRENSADO_200 > 1: NO (232/88.2)
##             ACC_PRENSADO_200 <= 1:
##             :...ATROPELLADO_FATAL_100 > 3: SI (94.5/36)
##                 ATROPELLADO_FATAL_100 <= 3:
##                 :...ATROPELLADO_200 <= 7: SI (1187.5/539.8)
##                     ATROPELLADO_200 > 7:
##                     :...ACC_PRENSADO_200 > 0: SI (1415.5/700.3)
##                         ACC_PRENSADO_200 <= 0:
##                         :...VEH_ATRAPADO_200 > 2: NO (112.2/37.4)
##                             VEH_ATRAPADO_200 <= 2:
##                             :...crossing_300 > 0: SI (1368.3/661.
```

```
4)
##                                              crossing_300 <= 0: [S9]
##
## SubTree [S6]
##
## ACC_C_LESION_100 <= 0: SI (2020.1/1001.1)
## ACC_C_LESION_100 > 0: NO (4033.2/1834.6)
##
## SubTree [S7]
##
## traffic_signals_300 > 6: SI (64.5/15.7)
## traffic_signals_300 <= 6:
## :...ATROPELLADO_100 <= 1: NO (773.5/351.1)
##     ATROPELLADO_100 > 1: SI (2183.4/1005.6)
##
## SubTree [S8]
##
## ACC_FATAL_200 > 0: NO (592.2/278.8)
## ACC_FATAL_200 <= 0:
## :...VEH_ATRAPADO_200 > 0: SI (390.1/155.6)
##     VEH_ATRAPADO_200 <= 0:
##     :...school_300 <= 2: SI (2667.2/1215.2)
##         school_300 > 2: NO (126.5/53)
##
## SubTree [S9]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 10: NO (44.6/7.1)
## PER_ATRAPADO_DESBARRANCADO_200 <= 10:
## :...OTROS_200 > 3: SI (162.9/66.7)
##     OTROS_200 <= 3:
##     :...ATROPELLADO_FATAL_100 > 0: NO (1507.7/640.6)
##         ATROPELLADO_FATAL_100 <= 0:
##         :...ACC_FATAL_200 > 2: SI (89.4/31.6)
##             ACC_FATAL_200 <= 2:
##             :...restaurant_300 > 8: NO (616.7/249.4)
##                 restaurant_300 <= 8:
##                 :...ACC_FATAL_100 > 0: NO (508.3/210.8)
##                     ACC_FATAL_100 <= 0:
##                     :...ATROPELLADO_200 > 95: SI (114.6/37.6)
##                         ATROPELLADO_200 <= 95:
##                         :...hospital_300 > 2: SI (79.6/29.1)
##                             hospital_300 <= 2:
```

```
##                                                  :...school_300 > 4: NO (44.5/11.6)
##                                                     school_300 <= 4: [S10]
##
## SubTree [S10]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (320.6/141.9)
## PER_ATRAPADO_DESBARRANCADO_100 <= 1:
## :...metro_300 > 0: SI (545.2/257)
##     metro_300 <= 0:
##     :...bar_300 <= 2: NO (4552.2/2120.2)
##         bar_300 > 2: SI (45.1/14)
##
## -----  Trial 4:  -----
##
## Decision tree:
##
## traffic_signals > 0: SI (407.4/54.5)
## traffic_signals <= 0:
## :...nightclub_300 > 2: SI (108.5/33.1)
##     nightclub_300 <= 2:
##     :...rtp > 0: SI (2957.6/1047.9)
##         rtp <= 0:
##         :...hotel > 0: SI (141/47.4)
##             hotel <= 0:
##             :...interseccion > 0:
##                 :...bar > 0: SI (69.3/19.2)
##                 :   bar <= 0:
##                 :   :...bank > 0: SI (132.3/30.4)
##                 :       bank <= 0:
##                 :       :...hotel_300 > 0: SI (1864.7/668.8)
##                 :           hotel_300 <= 0:
##                 :           :...ACC_C_LESION_100 <= 0:
##                 :               :...ACC_FATAL_100 > 0: SI (87.7/3
5.1)
##                 :               :   ACC_FATAL_100 <= 0:
##                 :               :   :...VEH_DESBARRANCADO_100 > 0
: SI (113.2/44.2)
##                 :               :       VEH_DESBARRANCADO_100 <=
0:
##                 :               :       :...ATROPELLADO_100 <= 0:
NO (5410.5/1610.1)
##                 :               :           ATROPELLADO_100 > 0:
```

```
##                        :                     :                       :...restaurant_300 >
0: NO (346.2/150.8)
##                        :                     :                       restaurant_300 <=
0: [S1]
##                        :                     ACC_C_LESION_100 > 0:
##                        :                     :...school > 0: SI (110.3/35.2)
##                        :                         school <= 0:
##                        :                         :...metro_300 > 0: SI (2646.6
/1054.1)
##                        :                             metro_300 <= 0:
##                        :                             :...school_300 > 6: SI (6
7.4/16.2)
##                        :                                 school_300 <= 6:
##                        :                                 :...interseccion > 10
: NO (49.9/13.4)
##                        :                                     interseccion <= 1
0:
##                        :                                     :...ACC_C_LESION_
100 > 11: [S2]
##                        :                                         ACC_C_LESION_
100 <= 11: [S3]
##                    interseccion <= 0:
##                    :...turning_circle > 0: NO (46.7/6.4)
##                        turning_circle <= 0:
##                        :...ACC_S_LESION_100 <= 3: NO (15831.4/2170.8
)
##                            ACC_S_LESION_100 > 3:
##                            :...ACC_PRENSADO_200 > 0: NO (2665/1103.6
)
##                                ACC_PRENSADO_200 <= 0:
##                                :...crossing_300 > 2: NO (1779.2/768.
7)
##                                    crossing_300 <= 2:
##                                    :...restaurant_300 > 4: NO (2181.
9/972.4)
##                                        restaurant_300 <= 4:
##                                        :...hotel_300 > 2: NO (92.4/2
9.8)
##                                            hotel_300 <= 2: [S4]
##
## SubTree [S1]
##
```

```
## PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (26.7/6.4)
## PER_ATRAPADO_DESBARRANCADO_100 <= 1:
## :...ACC_S_LESION_100 <= 1: SI (815.4/331.3)
##     ACC_S_LESION_100 > 1:
##     :...ACC_C_LESION_200 <= 3: NO (1413.8/641.6)
##         ACC_C_LESION_200 > 3: SI (1477.5/693.3)
##
## SubTree [S2]
##
## ACC_PRENSADO_100 > 2: NO (29.8/9.5)
## ACC_PRENSADO_100 <= 2:
## :...rtp_300 <= 0: SI (2969.3/1119.5)
##     rtp_300 > 0:
##     :...VEH_DESBARRANCADO_100 > 0: NO (83.7/34.1)
##         VEH_DESBARRANCADO_100 <= 0:
##         :...VOLCADURA_200 > 21: NO (439.7/199.6)
##             VOLCADURA_200 <= 21:
##             :...ACC_S_LESION_200 > 432: SI (97.5/21.1)
##                 ACC_S_LESION_200 <= 432:
##                 :...MOTOCICLISTA_100 <= 0: SI (556.2/215.7)
##                     MOTOCICLISTA_100 > 0:
##                     :...ACC_C_LESION_200 <= 29: NO (1024.7/485)
##                         ACC_C_LESION_200 > 29:
##                         :...interseccion > 4: SI (328.3/110.9)
##                             interseccion <= 4:
##                             :...OTROS_100 > 1: NO (191/88.7)
##                                 OTROS_100 <= 1:
##                                 :...crossing_300 <= 2: SI (2961.3
## /1297.2)
##                                     crossing_300 > 2: NO (247/104
## .4)
##
## SubTree [S3]
##
## ACC_PRENSADO_200 > 1: SI (112.5/42.2)
## ACC_PRENSADO_200 <= 1:
## :...MOTOCICLISTA_100 > 3: NO (762.2/360.2)
##     MOTOCICLISTA_100 <= 3:
##     :...MOTOCICLISTA_200 > 11: NO (383.5/163.7)
##         MOTOCICLISTA_200 <= 11:
##         :...traffic_signals_300 > 14: NO (160.2/65.3)
##             traffic_signals_300 <= 14:
```

```
##                         :...ATROPELLADO_100 > 24: SI (56.8/15.3)
##                         ATROPELLADO_100 <= 24:
##                         :...hospital_300 > 0: SI (716.4/305.1)
##                             hospital_300 <= 0:
##                             :...MOTOCICLISTA_100 > 1:
##                                 :...interseccion > 4: SI (406.3/152.2)
##                                 :   interseccion <= 4:
##                                 :   :...ATROPELLADO_FATAL_100 <= 0: SI (3
179.5/1431.5)
##                                 :       ATROPELLADO_FATAL_100 > 0: NO (23
2.4/95.9)
##                                 MOTOCICLISTA_100 <= 1:
##                                 :...nightclub_300 > 0: SI (42.4/13.9)
##                                     nightclub_300 <= 0:
##                                     :...rtp_300 <= 2:
##                                         :...ACC_C_LESION_100 > 2: SI (658
1.6/3093.5)
##                                         :   ACC_C_LESION_100 <= 2: [S5]
##                                         rtp_300 > 2:
##                                         :...ACC_S_LESION_100 > 21: NO (14
04.2/672.7)
##                                             ACC_S_LESION_100 <= 21:
##                                             :...ACC_S_LESION_200 > 28: [S
6]
##                                                 ACC_S_LESION_200 <= 28:
##                                                 :...ACC_C_LESION_100 > 9:
NO (68.4/21.6)
##                                                     ACC_C_LESION_100 <= 9
:
##                                                     :...ATROPELLADO_100 <
= 6: SI (2766.5/1283.1)
##                                                         ATROPELLADO_100 >
6: NO (210.5/82.9)
##
## SubTree [S4]
##
## ATROPELLADO_FATAL_100 > 1: SI (533/240.2)
## ATROPELLADO_FATAL_100 <= 1:
## :...traffic_signals_300 > 2: SI (1863.9/881.3)
##     traffic_signals_300 <= 2:
##     :...rtp_300 > 22: NO (56.6/13.4)
##         rtp_300 <= 22:
```

```
##               :...metro_300 > 2: SI (144.1/60.7)
##                  metro_300 <= 2:
##                  :...traffic_signals_300 > 0: NO (485.7/202.4)
##                     traffic_signals_300 <= 0:
##                     :...hotel_300 > 0: SI (391.2/178.3)
##                        hotel_300 <= 0:
##                        :...OTROS_200 > 3: NO (88.4/31)
##                           OTROS_200 <= 3:
##                           :...ATROPELLADO_100 <= 0: NO (1504.2/647)
##                              ATROPELLADO_100 > 0:
##                              :...metro_300 > 0: NO (829.5/371.7)
##                                 metro_300 <= 0:
##                                 :...supermarket > 0: NO (37.3/10.
7)
##                                    supermarket <= 0:
##                                    :...MOTOCICLISTA_100 > 2:
##                                       :...OTROS_200 > 2: NO (54
/15.9)
##                                       :   OTROS_200 <= 2:
##                                       :   :...ATROPELLADO_200 <
= 3: NO (113.6/40.6)
##                                       :      ATROPELLADO_200 >
3: [S7]
##                                       MOTOCICLISTA_100 <= 2:
##                                       :...MOTOCICLISTA_200 > 13
: NO (92.1/28.1)
##                                          MOTOCICLISTA_200 <= 1
3: [S8]
##
## SubTree [S5]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 2: NO (113.6/39.6)
## PER_ATRAPADO_DESBARRANCADO_200 <= 2:
## :...ACC_FATAL_200 > 0: NO (323.9/147.9)
##     ACC_FATAL_200 <= 0:
##     :...OTROS_200 <= 0: SI (4981/2381.6)
##         OTROS_200 > 0: NO (744/336.5)
##
## SubTree [S6]
##
## VEH_DESBARRANCADO_200 <= 0: SI (4266.2/1830.2)
## VEH_DESBARRANCADO_200 > 0: NO (126/51.6)
```

```
##
## SubTree [S7]
##
## ACC_FATAL_100 > 1: NO (54.5/19.9)
## ACC_FATAL_100 <= 1:
## :...VOLCADURA_100 <= 0: NO (886.6/433.8)
##     VOLCADURA_100 > 0: SI (1481/639.1)
##
## SubTree [S8]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 3: SI (152.5/58.4)
## PER_ATRAPADO_DESBARRANCADO_200 <= 3:
## :...ACC_FATAL_200 > 1: NO (140/55.6)
##     ACC_FATAL_200 <= 1:
##     :...MOTOCICLISTA_200 > 2:
##         :...ATROPELLADO_FATAL_100 > 0: NO (288/128.4)
##         :   ATROPELLADO_FATAL_100 <= 0:
##         :   :...MOTOCICLISTA_100 <= 1: NO (1982.6/973.9)
##         :       MOTOCICLISTA_100 > 1: SI (1083.1/499.7)
##         MOTOCICLISTA_200 <= 2:
##         :...PER_ATRAPADO_DESBARRANCADO_200 > 1: NO (222.6/81.5)
##             PER_ATRAPADO_DESBARRANCADO_200 <= 1:
##             :...ATROPELLADO_FATAL_200 > 0: SI (576.9/272.2)
##                 ATROPELLADO_FATAL_200 <= 0:
##                 :...hospital_300 <= 0: NO (3854.2/1792.6)
##                     hospital_300 > 0: SI (184.8/80.2)
##
## -----  Trial 5:  -----
##
## Decision tree:
##
## ACC_S_LESION_100 <= 0:
## :...ATROPELLADO_FATAL_100 > 0: SI (68.6/28.2)
## :   ATROPELLADO_FATAL_100 <= 0:
## :   :...VEH_ATRAPADO_100 <= 0: NO (13513.9/1372.7)
## :       VEH_ATRAPADO_100 > 0: SI (106/37.6)
## ACC_S_LESION_100 > 0:
## :...traffic_signals > 0: SI (377.2/59.2)
##     traffic_signals <= 0:
##     :...cruce_peligroso > 0: SI (199.8/34.7)
##         cruce_peligroso <= 0:
##         :...metrobus > 0: SI (152.5/43.9)
```

```
##                 metrobus <= 0:
##                 :...restaurant > 0: SI (954.4/329.9)
##                     restaurant <= 0:
##                     :...bar > 0: SI (81.2/26.5)
##                         bar <= 0:
##                         :...hotel_300 > 4: SI (582.9/237.3)
##                             hotel_300 <= 4:
##                             :...restaurant_300 > 20: SI (777.1/327.9)
##                                 restaurant_300 <= 20:
##                                 :...bank > 0: SI (212.3/77.7)
##                                     bank <= 0:
##                                     :...ACC_S_LESION_100 <= 2:
##                                         :...ACC_FATAL_100 > 0: SI (16
3.2/73.7)
##                                         :   ACC_FATAL_100 <= 0:
##                                         :   :...interseccion <= 0:
##                                         :       :...crossing_300 <= 0
: NO (2865.6/1125.2)
##                                         :       :   crossing_300 > 0:
SI (271.3/116.2)
##                                         :       interseccion > 0:
##                                         :       :...ACC_S_LESION_200
<= 183: NO (5486.1/2509.4)
##                                         :           ACC_S_LESION_200
> 183: SI (43.5/8.2)
##                                         ACC_S_LESION_100 > 2:
##                                         :...interseccion > 2:
##                                             :...OTROS_100 > 1: SI (35
9.3/110.5)
##                                             :   OTROS_100 <= 1:
##                                             :   :...bar_300 > 0: SI (
350.4/103.8)
##                                             :       bar_300 <= 0: [S1
]
##                                             interseccion <= 2:
##                                             :...turning_circle > 0: N
O (49.2/12.7)
##                                                 turning_circle <= 0:
##                                                 :...hotel > 0: SI (52
/15.1)
##                                                     hotel <= 0:
##                                                     :...traffic_signa
```

```
ls_300 > 0: [S2]
##                                                  traffic_signa
ls_300 <= 0: [S3]
##
## SubTree [S1]
##
## VEH_DESBARRANCADO_100 > 0: NO (200.3/82.4)
## VEH_DESBARRANCADO_100 <= 0:
## :...ACC_C_LESION_100 > 12: SI (3544.8/1305.3)
##       ACC_C_LESION_100 <= 12:
##       :...school_300 > 2: SI (418.9/164.6)
##           school_300 <= 2:
##           :...hotel_300 > 0: NO (235.4/102.9)
##               hotel_300 <= 0:
##               :...PER_ATRAPADO_DESBARRANCADO_200 > 1: SI (641.2/271
.1)
##                   PER_ATRAPADO_DESBARRANCADO_200 <= 1:
##                   :...crossing_300 > 0: SI (488.8/206.7)
##                       crossing_300 <= 0:
##                       :...metro_300 > 0: NO (325.1/136)
##                           metro_300 <= 0:
##                           :...ACC_PRENSADO_200 > 0: SI (405.9/165.8
)
##                               ACC_PRENSADO_200 <= 0:
##                               :...ACC_C_LESION_200 > 20:
##                                   :...VEH_ATRAPADO_100 > 0: SI (83.
3/20)
##                                   :   VEH_ATRAPADO_100 <= 0: [S4]
##                                   ACC_C_LESION_200 <= 20:
##                                   :...traffic_signals_300 > 8: SI (
28.9/5.2)
##                                       traffic_signals_300 <= 8:
##                                       :...interseccion <= 4: NO (63
77.3/2947.3)
##                                           interseccion > 4: [S5]
##
## SubTree [S2]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 13: SI (71.1/22)
## PER_ATRAPADO_DESBARRANCADO_200 <= 13:
## :...hospital_300 > 2: NO (118.7/41.7)
##       hospital_300 <= 2:
```

```
##        :...OTROS_200 <= 1: NO (6836.9/3100.5)
##            OTROS_200 > 1: SI (1021.5/490.2)
##
## SubTree [S3]
##
## VOLCADURA_100 > 16: SI (628.5/268.7)
## VOLCADURA_100 <= 16:
## :...ACC_FATAL_100 > 2: SI (68.1/25.6)
##      ACC_FATAL_100 <= 2:
##      :...interseccion <= 0:
##          :...rtp_300 > 22: NO (92.1/24.7)
##          :    rtp_300 <= 22:
##          :    :...VOLCADURA_100 > 3: NO (2130.8/928.2)
##          :        VOLCADURA_100 <= 3:
##          :        :...ATROPELLADO_100 > 72: SI (77.3/23.6)
##          :            ATROPELLADO_100 <= 72:
##          :            :...restaurant_300 > 12: NO (152/56.6)
##          :                restaurant_300 <= 12:
##          :                :...ACC_S_LESION_100 <= 112: NO (16760.1/
## 8067.7)
##          :                            ACC_S_LESION_100 > 112: SI (697.2/300
## .7)
##          interseccion > 0:
##          :...bar_300 > 2: SI (97.4/26.6)
##              bar_300 <= 2:
##              :...PER_ATRAPADO_DESBARRANCADO_100 > 3: SI (94.5/26.9
## )
##                  PER_ATRAPADO_DESBARRANCADO_100 <= 3:
##                  :...MOTOCICLISTA_100 > 3: SI (2446.8/1087.2)
##                      MOTOCICLISTA_100 <= 3:
##                      :...restaurant_300 > 12: SI (49.4/13)
##                          restaurant_300 <= 12:
##                          :...VOLCADURA_100 > 4: SI (390/161.2)
##                              VOLCADURA_100 <= 4:
##                              :...supermarket > 0: SI (27.5/8.2)
##                                  supermarket <= 0:
##                                  :...hotel_300 > 0: NO (448.6/202.
## 3)
##                                      hotel_300 <= 0:
##                                      :...ATROPELLADO_100 > 9:
##                                          :...crossing_300 > 0: SI
## (124.3/28.2)
```

```
##                                          :      crossing_300 <= 0:
##                                          :      :...rtp_300 > 20: NO
(53.9/16.8)
##                                          :          rtp_300 <= 20: [S
6]
##                                      ATROPELLADO_100 <= 9:
##                                      :...OTROS_100 > 1: SI (70
.8/21.6)
##                                          OTROS_100 <= 1: [S7]
##
## SubTree [S4]
##
## PER_ATRAPADO_DESBARRANCADO_200 <= 0: SI (1857.9/811.5)
## PER_ATRAPADO_DESBARRANCADO_200 > 0: NO (444.4/200.7)
##
## SubTree [S5]
##
## ATROPELLADO_FATAL_100 > 0: SI (114.5/31.1)
## ATROPELLADO_FATAL_100 <= 0:
## :...VOLCADURA_200 <= 1: SI (2280.6/1035.1)
##     VOLCADURA_200 > 1: NO (481.2/209.9)
##
## SubTree [S6]
##
## MOTOCICLISTA_200 <= 0: SI (119.1/33.6)
## MOTOCICLISTA_200 > 0:
## :...ATROPELLADO_FATAL_200 > 2: SI (119.6/40.2)
##     ATROPELLADO_FATAL_200 <= 2:
##     :...ACC_S_LESION_200 > 340: NO (41.6/9.3)
##         ACC_S_LESION_200 <= 340:
##         :...restaurant_300 <= 0: SI (1927.2/885.8)
##             restaurant_300 > 0: NO (317/133.7)
##
## SubTree [S7]
##
## ATROPELLADO_FATAL_100 > 0: NO (606.3/271.9)
## ATROPELLADO_FATAL_100 <= 0:
## :...VEH_ATRAPADO_200 > 2: SI (63.8/21.8)
##     VEH_ATRAPADO_200 <= 2:
##     :...ACC_FATAL_100 > 0: SI (371.4/168.7)
##         ACC_FATAL_100 <= 0:
##         :...MOTOCICLISTA_100 <= 0:
```

```
##                      :...crossing_300 > 2: NO (196.1/73.3)
##                      :   crossing_300 <= 2:
##                      :   :...metro_300 > 0: SI (167.1/69.9)
##                      :       metro_300 <= 0:
##                      :       :...VOLCADURA_100 <= 2: NO (7073.7/3369.3)
##                      :           VOLCADURA_100 > 2: SI (107.1/38.9)
##                  MOTOCICLISTA_100 > 0:
##                  :...metro_300 > 2: NO (31.4/7.5)
##                      metro_300 <= 2:
##                      :...restaurant_300 > 6: NO (73.1/24.4)
##                          restaurant_300 <= 6:
##                          :...MOTOCICLISTA_200 > 15: SI (92.2/31.8)
##                              MOTOCICLISTA_200 <= 15:
##                              :...ATROPELLADO_200 > 41: NO (201.3/65)
##                                  ATROPELLADO_200 <= 41:
##                                  :...ACC_C_LESION_200 > 24: SI (1379.3
/608.4)
##                                      ACC_C_LESION_200 <= 24:
##                                      :...VEH_DESBARRANCADO_100 > 0: SI
(72/26.6)
##                                          VEH_DESBARRANCADO_100 <= 0:
##                                          :...VEH_ATRAPADO_100 > 0: NO
(160.1/61.8)
##                                              VEH_ATRAPADO_100 <= 0:
##                                              :...VEH_ATRAPADO_200 <= 0
: NO (4119.4/2006.3)
##                                                  VEH_ATRAPADO_200 > 0:
SI (218.7/95.6)
##
## -----  Trial 6:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0:
## :...VOLCADURA_100 > 0: SI (246.2/112.4)
## :    VOLCADURA_100 <= 0:
## :    :...MOTOCICLISTA_100 <= 0: NO (8010.9/324.2)
## :        MOTOCICLISTA_100 > 0: SI (155.3/67)
## ACC_S_LESION_200 > 0:
## :...ACC_S_LESION_100 <= 0:
##     :...ACC_C_LESION_100 <= 0: NO (3212.6/417.2)
##     :    ACC_C_LESION_100 > 0: SI (1126.3/517.6)
```

```
##       ACC_S_LESION_100 > 0:
##       :...traffic_signals > 0: SI (353.3/62.9)
##           traffic_signals <= 0:
##           :...metrobus > 0: SI (159.7/51)
##               metrobus <= 0:
##               :...rtp > 0: SI (2936.7/1115.3)
##                   rtp <= 0:
##                   :...ACC_S_LESION_100 <= 2:
##                       :...interseccion <= 0:
##                       :   :...ACC_C_LESION_100 <= 1: NO (2451/991.5
## )
##                       :   :   ACC_C_LESION_100 > 1: SI (692.8/324.2
## )
##                       :   interseccion > 0:
##                       :   :...restaurant_300 <= 2: SI (5434.8/2651.
## 7)
##                       :       restaurant_300 > 2: NO (135.2/52.8)
##                   ACC_S_LESION_100 > 2:
##                   :...interseccion <= 0:
##                       :...traffic_signals_300 > 0:
##                       :   :...ACC_S_LESION_100 <= 4: SI (201.8/
## 77.9)
##                       :   :   ACC_S_LESION_100 > 4: NO (4777.8/
## 2249.6)
##                       :   traffic_signals_300 <= 0:
##                       :   :...rtp_300 > 22: NO (76.9/23.5)
##                       :       rtp_300 <= 22:
##                       :       :...OTROS_200 > 4: NO (171.8/67.9
## )
##                       :           OTROS_200 <= 4:
##                       :           :...ACC_C_LESION_100 > 17:
##                       :               :...supermarket > 0: SI (
## 39.8/14.4)
##                       :               :   supermarket <= 0:
##                       :               :   :...school > 0: SI (4
## 1.9/14.8)
##                       :               :       school <= 0: [S1]
##                       :               ACC_C_LESION_100 <= 17:
##                       :               :...nightclub_300 > 0: SI
## (137.1/59.8)
##                       :                   nightclub_300 <= 0:
##                       :                   :...bar_300 > 4: NO (
```

```
54/16.8)
##                                        :                              bar_300 <= 4: [S2
]
##                              interseccion > 0:
##                              :...crossing > 2: SI (30.3/3.1)
##                                  crossing <= 2:
##                                  :...OTROS_200 > 5: SI (70.4/14)
##                                      OTROS_200 <= 5:
##                                      :...bank > 0: SI (116.3/33.3)
##                                          bank <= 0:
##                                          :...restaurant_300 > 10: SI (
1238.8/444.6)
##                                              restaurant_300 <= 10:
##                                              :...bar_300 > 4: SI (38.5
/6.3)
##                                                  bar_300 <= 4:
##                                                  :...bar_300 > 0: SI (
978.6/398.8)
##                                                      bar_300 <= 0:
##                                                      :...school_300 >
6: SI (85.7/25.6)
##                                                          school_300 <=
6: [S3]
##
## SubTree [S1]
##
## nightclub_300 > 0: NO (140.5/56.3)
## nightclub_300 <= 0:
## :...metro_300 > 0: SI (1150.2/539.7)
##     metro_300 <= 0:
##     :...ATROPELLADO_100 > 47: NO (265.5/97.2)
##         ATROPELLADO_100 <= 47:
##         :...bar_300 <= 2: NO (3779/1839.2)
##             bar_300 > 2: SI (142.3/58.9)
##
## SubTree [S2]
##
## restaurant_300 > 26: NO (45.9/15.5)
## restaurant_300 <= 26:
## :...ACC_PRENSADO_200 > 1: NO (87/35.4)
##     ACC_PRENSADO_200 <= 1:
##     :...ACC_S_LESION_200 > 534: SI (58.6/13.2)
```

```
##               ACC_S_LESION_200 <= 534:
##               :...MOTOCICLISTA_100 <= 1:
##                   :...ACC_S_LESION_100 <= 4: NO (1586.9/768.2)
##                   :    ACC_S_LESION_100 > 4: SI (8738.8/4021.8)
##                   MOTOCICLISTA_100 > 1:
##                   :...PER_ATRAPADO_DESBARRANCADO_100 > 2: SI (75.2/23)
##                       PER_ATRAPADO_DESBARRANCADO_100 <= 2:
##                       :...VEH_ATRAPADO_100 > 0: SI (216.4/92.6)
##                           VEH_ATRAPADO_100 <= 0:
##                           :...MOTOCICLISTA_100 <= 2: NO (1960.7/934.7)
##                               MOTOCICLISTA_100 > 2: SI (1650.7/730)
##
## SubTree [S3]
##
## ACC_FATAL_200 > 1: NO (1557.6/760.8)
## ACC_FATAL_200 <= 1:
## :...ATROPELLADO_FATAL_100 > 3: SI (62.6/16.4)
##     ATROPELLADO_FATAL_100 <= 3:
##     :...ACC_S_LESION_200 > 505: SI (120.5/26.9)
##         ACC_S_LESION_200 <= 505:
##         :...hotel_300 > 2: SI (152.6/51.9)
##             hotel_300 <= 2:
##             :...ACC_S_LESION_100 > 211: NO (306.5/117.7)
##                 ACC_S_LESION_100 <= 211:
##                 :...MOTOCICLISTA_100 > 8: SI (400.1/137.9)
##                     MOTOCICLISTA_100 <= 8:
##                     :...PER_ATRAPADO_DESBARRANCADO_200 > 1:
##                         :...PER_ATRAPADO_DESBARRANCADO_200 <= 13:
SI (2912.1/1258.7)
##                         :    PER_ATRAPADO_DESBARRANCADO_200 > 13:
NO (33.4/9.3)
##                             PER_ATRAPADO_DESBARRANCADO_200 <= 1:
##                             :...traffic_signals_300 > 14: NO (300.2/1
33)
##                                 traffic_signals_300 <= 14:
##                                 :...ATROPELLADO_200 > 126: SI (46/8)
##                                     ATROPELLADO_200 <= 126:
##                                     :...OTROS_200 > 3: NO (121.4/48.6
)
##                                         OTROS_200 <= 3:
##                                         :...rtp_300 > 10:
##                                             :...VEH_ATRAPADO_100 > 0:
```

```
SI (173.6/71.7)
##                                       :     VEH_ATRAPADO_100 <= 0
:
##                                       :     :...crossing_300 <= 4
: NO (3672.9/1823.8)
##                                       :         crossing_300 > 4:
SI (52.4/16.1)
##                                     rtp_300 <= 10:
##                                     :...ACC_S_LESION_200 > 22
:
##                                         :...school > 0: SI (6
4.5/20.9)
##                                         :   school <= 0:
##                                         :   :...hospital_300
> 0: SI (793.9/331.4)
##                                         :       hospital_300
<= 0:
##                                         :       :...intersecc
ion <= 2: [S4]
##                                         :           intersecc
ion > 2: [S5]
##                                         ACC_S_LESION_200 <= 2
2:
##                                         :...ATROPELLADO_200 >
24: SI (29.4/4.5)
##                                             ATROPELLADO_200 <
= 24: [S6]
##
## SubTree [S4]
##
## restaurant_300 > 2: NO (742.7/362.8)
## restaurant_300 <= 2:
## :...crossing_300 > 2: NO (372.3/165.5)
##     crossing_300 <= 2:
##     :...VEH_ATRAPADO_200 <= 1: SI (11566.5/5360.9)
##         VEH_ATRAPADO_200 > 1: NO (241.6/114.7)
##
## SubTree [S5]
##
## interseccion > 10: NO (39.5/12.4)
## interseccion <= 10:
## :...ACC_C_LESION_200 > 94: SI (268.4/86.6)
```

```
##        ACC_C_LESION_200 <= 94:
##        :...ATROPELLADO_FATAL_200 <= 1: SI (8947.5/3989.4)
##            ATROPELLADO_FATAL_200 > 1: NO (564.1/260.8)
##
## SubTree [S6]
##
## VOLCADURA_200 > 15: NO (40.5/10.6)
## VOLCADURA_200 <= 15:
## :...ACC_C_LESION_200 > 22: SI (54.5/14.2)
##        ACC_C_LESION_200 <= 22:
##        :...traffic_signals_300 > 2: SI (148.3/51.4)
##            traffic_signals_300 <= 2:
##            :...ACC_C_LESION_100 > 9: NO (237.2/97)
##                ACC_C_LESION_100 <= 9:
##                :...interseccion > 2: NO (3495.4/1722.1)
##                    interseccion <= 2:
##                    :...school_300 <= 0: SI (3834.8/1791.3)
##                        school_300 > 0: NO (285.1/125.1)
##
## -----  Trial 7:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0: NO (7851.8/545.4)
## ACC_S_LESION_200 > 0:
## :...ACC_S_LESION_100 <= 0:
##      :...MOTOCICLISTA_100 <= 0: NO (3846.8/780.1)
##      :   MOTOCICLISTA_100 > 0: SI (387.4/170)
##      ACC_S_LESION_100 > 0:
##      :...traffic_signals > 0: SI (332.9/65.5)
##          traffic_signals <= 0:
##          :...rtp > 2: SI (267.7/59)
##              rtp <= 2:
##              :...trolebus > 0: SI (353.9/127.3)
##                  trolebus <= 0:
##                  :...ACC_S_LESION_100 <= 2: NO (8963.1/4036.5)
##                      ACC_S_LESION_100 > 2:
##                      :...interseccion <= 2:
##                          :...turning_circle > 0: NO (53.7/15.8)
##                          :   turning_circle <= 0:
##                          :   :...interseccion > 0: SI (26411.6/127
50.1)
```

```
##                        :                     interseccion <= 0:
##                        :                     :...school > 0: SI (190.1/85.9)
##                        :                        school <= 0:
##                        :                        :...rtp > 0: NO (860.4/374.1)
##                        :                           rtp <= 0:
##                        :                           :...MOTOCICLISTA_200 <= 2
: [S1]
##                        :                              MOTOCICLISTA_200 > 2:
##                        :                              :...crossing > 0: SI
(51.1/14.8)
##                        :                                 crossing <= 0: [S
2]
##                        interseccion > 2:
##                        :...hotel_300 > 2: SI (130.8/20)
##                           hotel_300 <= 2:
##                           :...bank > 0: SI (31/3.9)
##                              bank <= 0:
##                              :...metro_300 > 2: SI (110.2/19.6
)
##                                 metro_300 <= 2:
##                                 :...ATROPELLADO_FATAL_100 > 3
: SI (45.8/9.7)
##                                    ATROPELLADO_FATAL_100 <=
3:
##                                    :...rtp > 0: SI (644.6/18
8.1)
##                                       rtp <= 0: [S3]
##
## SubTree [S1]
##
## traffic_signals_300 > 22: SI (25.3/5.3)
## traffic_signals_300 <= 22:
## :...ACC_C_LESION_100 > 44: NO (49.9/10.2)
##     ACC_C_LESION_100 <= 44:
##     :...ACC_C_LESION_100 > 31: SI (130.7/34.7)
##         ACC_C_LESION_100 <= 31:
##         :...hotel_300 > 2: SI (54.5/18.5)
##            hotel_300 <= 2:
##            :...VOLCADURA_200 > 17: SI (104.2/37.7)
##               VOLCADURA_200 <= 17:
##               :...ATROPELLADO_FATAL_200 > 1: NO (215.8/76.8)
##                  ATROPELLADO_FATAL_200 <= 1:
```

```
##                              :...MOTOCICLISTA_100 <= 1: NO (7920.9/3615.1)
##                                 MOTOCICLISTA_100 > 1: SI (624.7/281.7)
##
## SubTree [S2]
##
## VEH_DESBARRANCADO_200 > 1: NO (63/20.5)
## VEH_DESBARRANCADO_200 <= 1:
## :...school_300 > 0:
##     :...hotel > 0: NO (31.7/8.7)
##     :   hotel <= 0:
##     :   :...ACC_C_LESION_100 > 46: SI (481.4/180.8)
##     :       ACC_C_LESION_100 <= 46:
##     :       :...rtp_300 <= 4: NO (1273/608)
##     :           rtp_300 > 4: SI (1292.9/584.8)
##     school_300 <= 0:
##     :...traffic_signals_300 > 26: NO (37.9/10.5)
##         traffic_signals_300 <= 26:
##         :...metrobus > 0: NO (57.8/23.4)
##             metrobus <= 0:
##             :...ACC_S_LESION_200 <= 25: NO (564/233.7)
##                 ACC_S_LESION_200 > 25:
##                 :...ACC_S_LESION_100 <= 4: SI (402.9/153.5)
##                     ACC_S_LESION_100 > 4:
##                     :...ACC_C_LESION_200 <= 7: SI (243.7/92.4)
##                         ACC_C_LESION_200 > 7:
##                         :...traffic_signals_300 <= 6: NO (10687/5
   186)
##                             traffic_signals_300 > 6: SI (1517.2/7
   09.7)
##
## SubTree [S3]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 7: SI (76/16.2)
## PER_ATRAPADO_DESBARRANCADO_200 <= 7:
## :...ACC_C_LESION_200 > 76: SI (1509.7/556.1)
##     ACC_C_LESION_200 <= 76:
##     :...ACC_FATAL_200 > 2: SI (46.6/12.2)
##         ACC_FATAL_200 <= 2:
##         :...restaurant_300 > 6: SI (256.9/78.5)
##             restaurant_300 <= 6:
##             :...crossing_300 > 6: NO (178.6/76.3)
##                 crossing_300 <= 6:
```

```
##                          :...VOLCADURA_100 > 10: NO (92.3/34.4)
##                          VOLCADURA_100 <= 10:
##                          :...interseccion > 10: NO (42.8/15.7)
##                             interseccion <= 10:
##                             :...metro_300 > 0: NO (529.5/262)
##                                metro_300 <= 0:
##                                :...MOTOCICLISTA_100 > 7: SI (74.6/19
## .8)
##                                   MOTOCICLISTA_100 <= 7: [S4]
##
## SubTree [S4]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 2: NO (72.9/28.3)
## PER_ATRAPADO_DESBARRANCADO_100 <= 2:
## :...ACC_S_LESION_100 <= 7:
##     :...bar_300 > 0: NO (32.9/8.1)
##     :   bar_300 <= 0:
##     :   :...hotel_300 > 0: NO (43.2/18.4)
##     :       hotel_300 <= 0:
##     :       :...ACC_C_LESION_200 <= 56: SI (4629.3/2267)
##     :          ACC_C_LESION_200 > 56: NO (46.2/7.9)
##     ACC_S_LESION_100 > 7:
##     :...rtp_300 > 10: SI (1546.8/643.2)
##         rtp_300 <= 10:
##         :...crossing_300 > 0: SI (317/137.7)
##            crossing_300 <= 0:
##            :...PER_ATRAPADO_DESBARRANCADO_200 > 0: SI (1564.7/67
## 8.5)
##               PER_ATRAPADO_DESBARRANCADO_200 <= 0:
##               :...ATROPELLADO_FATAL_200 > 3: NO (37.1/11.1)
##                  ATROPELLADO_FATAL_200 <= 3:
##                  :...VOLCADURA_200 > 8: NO (159.6/64)
##                     VOLCADURA_200 <= 8:
##                     :...VOLCADURA_200 > 7: SI (55.3/17.2)
##                        VOLCADURA_200 <= 7:
##                        :...ACC_C_LESION_100 <= 2: SI (1834.1
## /804.3)
##                           ACC_C_LESION_100 > 2:
##                           :...ATROPELLADO_200 > 17: SI (205
## 2/906.5)
##                              ATROPELLADO_200 <= 17:
##                              :...ATROPELLADO_200 > 16: NO
```

```
(205.2/73)
##                                          ATROPELLADO_200 <= 16:
##                                          :...ATROPELLADO_100 > 12:
NO (44.4/13.7)
##                                              ATROPELLADO_100 <= 12
:
##                                              :...interseccion <= 4
: SI (2059.3/980.9)
##                                                  interseccion > 4:
NO (691.8/316.6)
##
## -----  Trial 8:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0:
## :...ACC_C_LESION_100 > 0: NO (541.3/260.5)
## :    ACC_C_LESION_100 <= 0:
## :    :...ATROPELLADO_100 > 0: SI (191.2/81.3)
## :        ATROPELLADO_100 <= 0:
## :        :...VOLCADURA_100 <= 0: NO (6480.6/128.7)
## :            VOLCADURA_100 > 0: SI (143.4/60.8)
## ACC_S_LESION_200 > 0:
## :...cruce_peligroso > 0: SI (212.5/40.1)
##     cruce_peligroso <= 0:
##     :...ACC_S_LESION_100 <= 0: NO (4114.2/1034.2)
##         ACC_S_LESION_100 > 0:
##         :...traffic_signals > 0: SI (282.9/65.1)
##             traffic_signals <= 0:
##             :...metrobus > 0: SI (142.7/48.4)
##                 metrobus <= 0:
##                 :...restaurant > 0: SI (933/374.5)
##                     restaurant <= 0:
##                     :...rtp > 0:
##                         :...ACC_C_LESION_200 <= 4: NO (235.2/84.6
)
##                         :   ACC_C_LESION_200 > 4: SI (2495.9/1008
)
##                         rtp <= 0:
##                         :...MOTOCICLISTA_100 > 6:
##                             :...bar_300 > 2: SI (140.5/42.9)
##                             :   bar_300 <= 2:
```

```
##                                         :     :...interseccion > 2: SI (643.8/2
25.4)
##                                         :            interseccion <= 2:
##                                         :     :...interseccion <= 0: SI (18
89.7/887.1)
##                                         :            interseccion > 0: NO (125
6.7/606.1)
##                                    MOTOCICLISTA_100 <= 6:
##                                    :...VEH_ATRAPADO_200 > 6: NO (29.7/4.
8)
##                                       VEH_ATRAPADO_200 <= 6:
##                                       :...ACC_S_LESION_100 > 27:
##                                          :...ACC_S_LESION_100 > 329: N
O (29.8/4.9)
##                                          :    ACC_S_LESION_100 <= 329:
[S1]
##                                          ACC_S_LESION_100 <= 27:
##                                          :...hospital > 0: SI (35.7/9.
2)
##                                             hospital <= 0:
##                                             :...school_300 > 6: SI (1
56.7/58.2)
##                                                school_300 <= 6:
##                                                :...ACC_C_LESION_200
> 134: SI (230.1/82.9)
##                                                   ACC_C_LESION_200
<= 134:
##                                                   :...interseccion
> 2: [S2]
##                                                      interseccion
<= 2: [S3]
##
## SubTree [S1]
##
## ATROPELLADO_FATAL_200 > 7: SI (40.9/7.6)
## ATROPELLADO_FATAL_200 <= 7:
## :...VOLCADURA_100 > 25: NO (57/15.4)
##      VOLCADURA_100 <= 25:
##      :...hospital_300 > 4: NO (197.2/81.5)
##           hospital_300 <= 4:
##           :...interseccion > 2: SI (4119.6/1797.5)
##                interseccion <= 2:
```

```
##                            :...ATROPELLADO_FATAL_100 > 2: SI (176.2/69.5)
##                      ATROPELLADO_FATAL_100 <= 2:
##                      :...OTROS_100 > 2: NO (131.4/53.3)
##                          OTROS_100 <= 2:
##                          :...VOLCADURA_100 > 19: SI (41.2/9.9)
##                              VOLCADURA_100 <= 19:
##                              :...metro_300 > 2: NO (367.1/161.6)
##                                  metro_300 <= 2:
##                                  :...bar_300 > 16: NO (51.5/16.6)
##                                      bar_300 <= 16:
##                                      :...hotel_300 > 10: SI (38.9/10.1
)
##                                          hotel_300 <= 10:
##                                          :...crossing_300 > 6: SI (574
.5/241.8)
##                                              crossing_300 <= 6:
##                                              :...MOTOCICLISTA_200 <= 0
: SI (452/192.7)
##                                                  MOTOCICLISTA_200 > 0:
##                                                  :...interseccion > 0:
[S4]
##                                                      interseccion <= 0
:
##                                                      :...metro_300 > 0
: NO (1362.9/649.3)
##                                                          metro_300 <=
0: [S5]
##
## SubTree [S2]
##
## VEH_ATRAPADO_100 > 1: SI (38.4/9.9)
## VEH_ATRAPADO_100 <= 1:
## :...nightclub_300 > 0: NO (28.1/8.6)
##     nightclub_300 <= 0:
##     :...VOLCADURA_100 > 5: NO (129.9/45.5)
##         VOLCADURA_100 <= 5:
##         :...metro_300 > 0: SI (433.4/181.2)
##             metro_300 <= 0:
##             :...restaurant_300 > 0: NO (1334/591.1)
##                 restaurant_300 <= 0:
##                 :...ACC_S_LESION_100 <= 7:
##                     :...bar_300 > 0: NO (41.5/11.1)
```

```
##                              :    bar_300 <= 0:
##                              :    :...ATROPELLADO_200 > 16: NO (766.2/307.2
)
##                              :         ATROPELLADO_200 <= 16:
##                              :         :...ATROPELLADO_FATAL_200 > 1: NO (43
.6/10)
##                              :              ATROPELLADO_FATAL_200 <= 1:
##                              :              :...MOTOCICLISTA_200 > 6: SI (51.
7/12.7)
##                              :                   MOTOCICLISTA_200 <= 6:
##                              :                   :...crossing_300 > 2: SI (70.
8/23)
##                              :                        crossing_300 <= 2:
##                              :                        :...ACC_C_LESION_100 <= 0
: SI (2484.9/1175.6)
##                              :                             ACC_C_LESION_100 > 0:
NO (3457.3/1611.6)
##                         ACC_S_LESION_100 > 7:
##                         :...rtp_300 > 2:
##                             :...VEH_DESBARRANCADO_200 > 0: NO (114.9/
50.2)
##                             :    VEH_DESBARRANCADO_200 <= 0:
##                             :    :...ATROPELLADO_FATAL_100 > 1: NO (41
.5/14.1)
##                             :         ATROPELLADO_FATAL_100 <= 1:
##                             :         :...hospital_300 > 0: NO (82.6/35
.5)
##                             :              hospital_300 <= 0:
##                             :              :...VOLCADURA_100 > 1: NO (25
8.6/116.6)
##                             :                   VOLCADURA_100 <= 1:
##                             :                   :...ACC_C_LESION_100 <= 1
5: SI (2833.9/1224.7)
##                             :                        ACC_C_LESION_100 > 15
: NO (57.4/19.7)
##                             rtp_300 <= 2:
##                             :...ACC_C_LESION_200 > 76: SI (26.2)
##                                 ACC_C_LESION_200 <= 76:
##                                 :...ATROPELLADO_200 > 39: SI (66.6/13
.9)
##                                      ATROPELLADO_200 <= 39:
##                                      :...hotel_300 > 0: NO (48.5/11.8)
```

```
##                                              hotel_300 <= 0:
##                                              :...ACC_PRENSADO_200 > 0: SI
(82.6/30.5)
##                                                  ACC_PRENSADO_200 <= 0: [S
6]
##
## SubTree [S3]
##
## university > 0: NO (26.9/7.8)
## university <= 0:
## :...hospital_300 > 4: SI (70.8/24.9)
##     hospital_300 <= 4:
##     :...supermarket > 0: SI (45.4/16.4)
##         supermarket <= 0:
##         :...restaurant_300 > 0:
##             :...PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (624.2/275
)
##             :   PER_ATRAPADO_DESBARRANCADO_100 <= 0:
##             :   :...ACC_FATAL_200 > 1: NO (122.5/45.3)
##             :       ACC_FATAL_200 <= 1:
##             :       :...hospital_300 > 2: NO (44.2/14.1)
##             :           hospital_300 <= 2:
##             :           :...OTROS_200 > 1: NO (234.1/102.8)
##             :               OTROS_200 <= 1:
##             :               :...rtp_300 > 8: SI (641.1/277)
##             :                   rtp_300 <= 8:
##             :                   :...VEH_ATRAPADO_100 > 0: NO (73.
1/21.9)
##             :                       VEH_ATRAPADO_100 <= 0:
##             :                       :...ACC_S_LESION_100 <= 21: S
I (2603.6/1278.5)
##             :                           ACC_S_LESION_100 > 21: NO
(482.7/199.6)
##             restaurant_300 <= 0:
##             :...ATROPELLADO_200 > 91: SI (68.3/19.4)
##                 ATROPELLADO_200 <= 91:
##                 :...ATROPELLADO_100 > 9: NO (1637.1/682.1)
##                     ATROPELLADO_100 <= 9:
##                     :...interseccion > 0:
##                         :...VEH_DESBARRANCADO_200 > 1: NO (44.4/1
2.7)
##                         :   VEH_DESBARRANCADO_200 <= 1:
```

```
##                                     :    :...PER_ATRAPADO_DESBARRANCADO_100 >
2: SI (55.3/20.1)
##                               :         PER_ATRAPADO_DESBARRANCADO_100 <=
2:
##                               :         :...ACC_S_LESION_100 > 20: NO (14
70.3/727)
##                               :             ACC_S_LESION_100 <= 20:
##                               :             :...ATROPELLADO_FATAL_100 > 1
: NO (27.5/7.1)
##                               :                 ATROPELLADO_FATAL_100 <=
1: [S7]
##                           interseccion <= 0:
##                           :...ACC_FATAL_100 > 1: SI (71.3/27.7)
##                               ACC_FATAL_100 <= 1:
##                               :...ATROPELLADO_FATAL_200 > 2: SI (15
7.2/67.4)
##                                   ATROPELLADO_FATAL_200 <= 2:
##                                   :...ACC_S_LESION_100 <= 1: NO (15
46.2/676.5)
##                                       ACC_S_LESION_100 > 1:
##                                       :...OTROS_200 > 2: NO (84.1/3
2.4)
##                                           OTROS_200 <= 2:
##                                           :...ACC_C_LESION_200 > 87
: NO (113.1/36.5)
##                                               ACC_C_LESION_200 <= 8
7:
##                                               :...ACC_FATAL_200 > 0
: NO (1205.4/542.6)
##                                                   ACC_FATAL_200 <=
0:
##                                                   :...OTROS_100 > 0
: NO (626.1/270.8)
##                                                       OTROS_100 <=
0: [S8]
##
## SubTree [S4]
##
## ACC_FATAL_100 > 1: SI (75.3/25.3)
## ACC_FATAL_100 <= 1:
## :...crossing_300 > 0: SI (444.7/193)
##     crossing_300 <= 0:
```

```
##          :...metro_300 <= 0: NO (5417.5/2558.6)
##              metro_300 > 0: SI (702.8/341.7)
##
## SubTree [S5]
##
## ACC_FATAL_100 > 0: NO (734.9/338.6)
## ACC_FATAL_100 <= 0:
## :...ATROPELLADO_100 > 24: NO (784.1/363.6)
##     ATROPELLADO_100 <= 24:
##     :...school_300 > 6: NO (65.5/22.6)
##         school_300 <= 6:
##         :...ATROPELLADO_100 > 14: SI (1630.3/687.5)
##             ATROPELLADO_100 <= 14:
##             :...school > 0: NO (38.9/13.7)
##                 school <= 0:
##                 :...school_300 > 4: NO (26.9/7.1)
##                     school_300 <= 4:
##                     :...VEH_ATRAPADO_200 > 1: NO (156.1/62.8)
##                         VEH_ATRAPADO_200 <= 1:
##                         :...hospital_300 > 0: NO (303.9/139.6)
##                             hospital_300 <= 0:
##                             :...PER_ATRAPADO_DESBARRANCADO_100 >
## 1: SI (377.6/147.8)
##                                 PER_ATRAPADO_DESBARRANCADO_100 <=
## 1:
##                                 :...VOLCADURA_100 > 5: SI (189.4/
## 69.3)
##                                     VOLCADURA_100 <= 5:
##                                     :...ATROPELLADO_FATAL_100 > 0
## : NO (346.5/153.7)
##                                         ATROPELLADO_FATAL_100 <=
## 0:
##                                         :...ATROPELLADO_100 <= 4:
## NO (772.5/367.4)
##                                             ATROPELLADO_100 > 4:
## SI (2062.8/942.8)
##
## SubTree [S6]
##
## VEH_DESBARRANCADO_100 > 0: SI (29/7.6)
## VEH_DESBARRANCADO_100 <= 0:
## :...ACC_C_LESION_100 > 15: SI (43.5/10)
```

```
##        ACC_C_LESION_100 <= 15:
##        :...ACC_S_LESION_100 > 16: NO (1165/523.5)
##            ACC_S_LESION_100 <= 16:
##            :...bar_300 > 0: NO (34.9/10.6)
##                bar_300 <= 0:
##                :...MOTOCICLISTA_200 > 6: NO (98.9/32)
##                    MOTOCICLISTA_200 <= 6:
##                    :...ATROPELLADO_FATAL_100 > 0: SI (91.3/29.9)
##                        ATROPELLADO_FATAL_100 <= 0:
##                        :...ACC_C_LESION_200 <= 27: SI (2019.6/952.7)
##                            ACC_C_LESION_200 > 27: NO (129.2/46.7)
##
## SubTree [S7]
##
## ATROPELLADO_FATAL_100 > 0: NO (409.6/177.9)
## ATROPELLADO_FATAL_100 <= 0:
## :...ATROPELLADO_100 > 4: NO (2389/1025.6)
##      ATROPELLADO_100 <= 4:
##      :...metro_300 > 0: SI (217.1/104.3)
##          metro_300 <= 0:
##          :...hospital_300 > 0: SI (264.8/126.6)
##              hospital_300 <= 0:
##              :...ACC_S_LESION_100 > 2: NO (8893.5/4046)
##                  ACC_S_LESION_100 <= 2:
##                  :...OTROS_200 > 1: SI (46.4/13.5)
##                      OTROS_200 <= 1:
##                      :...MOTOCICLISTA_100 > 1: SI (98.7/36.2)
##                          MOTOCICLISTA_100 <= 1:
##                          :...ACC_C_LESION_100 > 2: SI (236.8/96.3)
##                              ACC_C_LESION_100 <= 2:
##                              :...ATROPELLADO_200 <= 4: NO (1714.7/
## 751.8)
##                                  ATROPELLADO_200 > 4: SI (763.2/35
## 6.5)
##
## SubTree [S8]
##
## VOLCADURA_200 > 11: SI (193.6/74.5)
## VOLCADURA_200 <= 11:
## :...MOTOCICLISTA_100 > 2: SI (523.7/233.4)
##      MOTOCICLISTA_100 <= 2:
##      :...ACC_C_LESION_100 > 16: NO (41.1/9.4)
```

```
## 	             ACC_C_LESION_100 <= 16:
## 	         :...ATROPELLADO_100 > 6: NO (575.2/240.1)
## 	             ATROPELLADO_100 <= 6:
## 	             :...VEH_ATRAPADO_200 > 0: SI (694/315.4)
## 	                 VEH_ATRAPADO_200 <= 0:
## 	                 :...VEH_DESBARRANCADO_200 > 0: NO (191.5/85.9)
## 	                     VEH_DESBARRANCADO_200 <= 0:
## 	                     :...hospital_300 > 0: SI (263.4/120.2)
## 	                         hospital_300 <= 0:
## 	                         :...ACC_PRENSADO_100 > 0: NO (61.6/23.7)
## 	                             ACC_PRENSADO_100 <= 0:
## 	                             :...MOTOCICLISTA_200 > 6: SI (260.7/1
## 10.1)
## 	                                 MOTOCICLISTA_200 <= 6:
## 	                                 :...OTROS_200 > 1: NO (45/13.3)
## 	                                     OTROS_200 <= 1:
## 	                                     :...ATROPELLADO_200 > 17: NO
## (572.8/245.3)
## 	                                         ATROPELLADO_200 <= 17:
## 	                                         :...MOTOCICLISTA_200 > 1:
## SI (2418.6/1142.3)
## 	                                             MOTOCICLISTA_200 <= 1
## :
## 	                                             :...ATROPELLADO_200 <
## = 15: NO (3466.6/1671.5)
## 	                                                 ATROPELLADO_200 >
## 15: SI (64.1/21.3)
## 
## -----  Trial 9:  -----
## 
## Decision tree:
## 
## ACC_S_LESION_200 <= 0:
## :...ACC_C_LESION_100 > 0: SI (531.7/258.6)
## :    ACC_C_LESION_100 <= 0:
## :    :...PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (49/14.7)
## :        PER_ATRAPADO_DESBARRANCADO_100 <= 0:
## :        :...OTROS_100 <= 0: NO (6251.6/246.4)
## :            OTROS_100 > 0: SI (43.9/13.2)
## ACC_S_LESION_200 > 0:
## :...cruce_peligroso > 0: SI (200.7/41.8)
##     cruce_peligroso <= 0:
```

```
##        :...ACC_S_LESION_100 <= 0:
##            :...ATROPELLADO_100 > 0: SI (867.6/404.2)
##            :    ATROPELLADO_100 <= 0:
##            :    :...PER_ATRAPADO_DESBARRANCADO_100 <= 0: NO (2938.5/5
54.7)
##            :            PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (112/48.7)
##        ACC_S_LESION_100 > 0:
##        :...restaurant > 4: SI (56.9/11.4)
##            restaurant <= 4:
##            :...traffic_signals > 0: SI (266.7/67.4)
##                traffic_signals <= 0:
##                :...interseccion <= 0:
##                    :...turning_circle > 0: NO (33.3/7.1)
##                    :    turning_circle <= 0:
##                    :    :...attraction > 0: SI (26.2/7.2)
##                    :        attraction <= 0:
##                    :        :...traffic_signals_300 > 4:
##                    :            :...traffic_signals_300 <= 30: NO
(3437.5/1535.2)
##                    :            :    traffic_signals_300 > 30: SI
(55.1/17.2)
##                    :            traffic_signals_300 <= 4:
##                    :            :...rtp_300 > 22: NO (121/41.7)
##                    :                rtp_300 <= 22:
##                    :                :...ACC_FATAL_100 > 0:
##                    :                    :...OTROS_200 <= 3: SI (2
209/1049.6)
##                    :                    :    OTROS_200 > 3: NO (11
4.1/44.1)
##                    :                    ACC_FATAL_100 <= 0:
##                    :                    :...ACC_FATAL_200 > 2: SI
(166.2/65.4)
##                    :                        ACC_FATAL_200 <= 2:
##                    :                        :...MOTOCICLISTA_200
<= 3: NO (13646.2/6426.2)
##                    :                            MOTOCICLISTA_200
> 3: [S1]
##                    interseccion > 0:
##                    :...metrobus > 0: SI (51.4/4.2)
##                        metrobus <= 0:
##                        :...metro > 0: SI (47/9.9)
##                            metro <= 0:
```

```
##                                               :...trolebus > 0: SI (191.9/60)
##                                             trolebus <= 0:
##                                             :...bank > 0: SI (128.7/41.9)
##                                                 bank <= 0:
##                                                 :...school > 0: SI (152.7/56)
##                                                     school <= 0:
##                                                     :...hotel_300 > 0: SI (19
39.4/789.7)
##                                                         hotel_300 <= 0:
##                                                         :...ACC_S_LESION_100
> 14:
##                                                             :...school_300 >
4: SI (253.1/92.3)
##                                                             :   school_300 <=
4:
##                                                             :   :...rtp > 0:
SI (1075.9/412.8)
##                                                             :       rtp <= 0:
[S2]
##                                                             ACC_S_LESION_100
<= 14: [S3]
##
## SubTree [S1]
##
## MOTOCICLISTA_200 > 33: SI (33.6/9.6)
## MOTOCICLISTA_200 <= 33:
## :...VEH_DESBARRANCADO_200 > 1: NO (39.8/12.3)
##     VEH_DESBARRANCADO_200 <= 1:
##     :...restaurant > 0: NO (216.1/88.2)
##         restaurant <= 0:
##         :...trolebus > 0: NO (55.4/20.7)
##             trolebus <= 0:
##             :...VEH_ATRAPADO_200 > 2: NO (117/47.6)
##                 VEH_ATRAPADO_200 <= 2:
##                 :...OTROS_200 <= 2: SI (9997.1/4949.1)
##                     OTROS_200 > 2: NO (563.6/251.2)
##
## SubTree [S2]
##
## ACC_FATAL_200 > 4: SI (81.4/21.5)
## ACC_FATAL_200 <= 4:
## :...FERROVIARIO_200 > 0: NO (111.6/49.4)
```

```
##        FERROVIARIO_200 <= 0:
##        :...interseccion > 6: SI (522.3/203.1)
##            interseccion <= 6:
##            :...ACC_C_LESION_200 > 101: SI (1941.7/823.7)
##                ACC_C_LESION_200 <= 101:
##                :...ACC_S_LESION_200 > 282: NO (666.3/291.5)
##                    ACC_S_LESION_200 <= 282:
##                    :...supermarket > 0: SI (48.3/14.3)
##                        supermarket <= 0:
##                        :...bar_300 > 0: SI (541.2/217.6)
##                            bar_300 <= 0:
##                            :...PER_ATRAPADO_DESBARRANCADO_200 > 12:
NO (33.9/8.3)
##                                PER_ATRAPADO_DESBARRANCADO_200 <= 12:
##                                :...PER_ATRAPADO_DESBARRANCADO_200 >
3: SI (502/198.1)
##                                    PER_ATRAPADO_DESBARRANCADO_200 <=
3:
##                                    :...ATROPELLADO_100 > 18: NO (201
0.4/967.2)
##                                        ATROPELLADO_100 <= 18:
##                                        :...OTROS_200 > 2: NO (224.9/
92.1)
##                                            OTROS_200 <= 2:
##                                            :...ACC_S_LESION_200 > 12
8: SI (2613.6/1098.1)
##                                                ACC_S_LESION_200 <= 1
28:
##                                                :...metro_300 > 2: NO
(38.8/11.8)
##                                                    metro_300 <= 2: [
S4]
##
## SubTree [S3]
##
## restaurant_300 > 18: NO (46.6/12.2)
## restaurant_300 <= 18:
## :...school_300 > 4: NO (158.1/54.3)
##     school_300 <= 4:
##     :...hospital_300 > 2: SI (78.4/29)
##         hospital_300 <= 2:
##         :...VOLCADURA_200 > 15: NO (283.8/113.8)
```

```
##                          VOLCADURA_200 <= 15:
##                          :...ATROPELLADO_100 > 10: SI (451.5/194.5)
##                             ATROPELLADO_100 <= 10:
##                             :...VEH_DESBARRANCADO_200 > 1: NO (69.3/25.1)
##                                VEH_DESBARRANCADO_200 <= 1:
##                                :...MOTOCICLISTA_100 > 4: NO (83.3/33.3)
##                                   MOTOCICLISTA_100 <= 4:
##                                   :...VOLCADURA_200 > 13: SI (61.1/18.4)
##                                      VOLCADURA_200 <= 13:
##                                      :...ACC_C_LESION_100 > 5:
##                                         :...school_300 > 2: SI (40/5.2)
##                                         :   school_300 <= 2:
##                                         :   :...MOTOCICLISTA_200 <= 5: SI
(2246.8/1035.6)
##                                         :       MOTOCICLISTA_200 > 5: NO
(321.5/127.2)
##                                         ACC_C_LESION_100 <= 5:
##                                         :...ACC_C_LESION_200 > 114: SI (3
1.9/6.2)
##                                            ACC_C_LESION_200 <= 114:
##                                            :...interseccion > 10: NO (27
.7/6.8)
##                                               interseccion <= 10:
##                                               :...ACC_S_LESION_200 <= 2
: SI (1087.5/485.6)
##                                                  ACC_S_LESION_200 > 2:
##                                                  :...MOTOCICLISTA_100
> 2: SI (373.3/168)
##                                                     MOTOCICLISTA_100
<= 2:
##                                                     :...ACC_C_LESION_
100 <= 0: [S5]
##                                                        ACC_C_LESION_
100 > 0: [S6]
##
## SubTree [S4]
##
## restaurant_300 > 12: NO (77.5/27.1)
## restaurant_300 <= 12:
## :...VOLCADURA_200 > 3: NO (1712.2/813.4)
##     VOLCADURA_200 <= 3:
##     :...crossing_300 > 0: SI (447.5/177)
```

```
##          crossing_300 <= 0:
##          :...PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (907/391.1)
##              PER_ATRAPADO_DESBARRANCADO_100 <= 0:
##              :...VOLCADURA_100 > 0:
##                  :...PER_ATRAPADO_DESBARRANCADO_200 > 1: SI (50/14
.9)
##                  :      PER_ATRAPADO_DESBARRANCADO_200 <= 1:
##                  :      :...VEH_DESBARRANCADO_200 <= 0: NO (2300.6/11
10)
##                  :          VEH_DESBARRANCADO_200 > 0: SI (74.9/25.6)
##                  VOLCADURA_100 <= 0:
##                  :...metro_300 > 0: NO (212.9/92.2)
##                      metro_300 <= 0:
##                      :...ACC_C_LESION_200 > 47: SI (212.2/65.8)
##                          ACC_C_LESION_200 <= 47:
##                          :...ACC_S_LESION_200 > 106: NO (360.3/152
.7)
##                              ACC_S_LESION_200 <= 106:
##                              :...restaurant_300 > 4: SI (94.6/26.2
)
##                                  restaurant_300 <= 4:
##                                  :...ACC_FATAL_200 > 0: NO (472.2/
222.6)
##                                      ACC_FATAL_200 <= 0:
##                                      :...ACC_S_LESION_200 <= 24: N
O (308.2/132.2)
##                                          ACC_S_LESION_200 > 24:
##                                          :...restaurant_300 <= 0:
SI (4532.5/2058.2)
##                                              restaurant_300 > 0: N
O (478.6/229)
##
## SubTree [S5]
##
## OTROS_200 > 1: NO (142.4/52.7)
## OTROS_200 <= 1:
## :...PER_ATRAPADO_DESBARRANCADO_200 > 1: SI (262.4/115.3)
##     PER_ATRAPADO_DESBARRANCADO_200 <= 1:
##     :...VOLCADURA_100 > 0: SI (688/333.8)
##         VOLCADURA_100 <= 0:
##         :...OTROS_100 <= 0: NO (5408/2509.1)
##             OTROS_100 > 0: SI (145.3/65.4)
```

```
##
## SubTree [S6]
##
## restaurant_300 > 8: SI (52.7/16.3)
## restaurant_300 <= 8:
## :...PER_ATRAPADO_DESBARRANCADO_100 > 1: NO (140.2/52.7)
##     PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##     :...PER_ATRAPADO_DESBARRANCADO_200 > 2: NO (176.8/70.3)
##         PER_ATRAPADO_DESBARRANCADO_200 <= 2:
##         :...bar_300 > 0: NO (139.7/60.7)
##             bar_300 <= 0:
##             :...restaurant_300 > 0: NO (1104.8/502.9)
##                 restaurant_300 <= 0:
##                 :...VEH_ATRAPADO_200 > 1: SI (159.6/59.5)
##                     VEH_ATRAPADO_200 <= 1:
##                     :...ACC_C_LESION_200 > 81: SI (51.3/15.2)
##                         ACC_C_LESION_200 <= 81:
##                         :...ACC_C_LESION_200 > 57: NO (154.1/57.9
## )
##                             ACC_C_LESION_200 <= 57:
##                             :...traffic_signals_300 > 0: SI (533.
## 4/242.8)
##                                 traffic_signals_300 <= 0:
##                                 :...MOTOCICLISTA_200 > 6: NO (347
## .6/146.2)
##                                     MOTOCICLISTA_200 <= 6:
##                                     :...hospital_300 > 0: SI (182
## /80)
##                                         hospital_300 <= 0: [S7]
##
## SubTree [S7]
##
## VEH_DESBARRANCADO_200 > 0: NO (329.9/150.7)
## VEH_DESBARRANCADO_200 <= 0:
## :...OTROS_200 > 0: SI (1706.6/790.7)
##     OTROS_200 <= 0:
##     :...interseccion > 2:
##         :...PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (161.5/67.8)
##         :   PER_ATRAPADO_DESBARRANCADO_100 <= 0:
##         :   :...school_300 <= 0: NO (4198.1/2032.6)
##         :       school_300 > 0: SI (302.6/134.3)
##         interseccion <= 2:
```

```
##            :...ACC_PRENSADO_200 > 0: SI (131.3/44.3)
##                ACC_PRENSADO_200 <= 0:
##                :...ATROPELLADO_FATAL_100 > 0: NO (137.7/61.4)
##                   ATROPELLADO_FATAL_100 <= 0:
##                   :...ACC_FATAL_200 <= 0: NO (4684.8/2222.6)
##                      ACC_FATAL_200 > 0: SI (241.1/105.2)
##
## -----  Trial 10:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0: NO (6503.8/570.9)
## ACC_S_LESION_200 > 0:
## :...ACC_S_LESION_100 <= 0: NO (3860.4/1067.6)
##     ACC_S_LESION_100 > 0:
##     :...interseccion <= 0:
##         :...turning_circle > 0: NO (31.7/7.4)
##         :   turning_circle <= 0:
##         :   :...MOTOCICLISTA_200 <= 1: SI (8128.5/3943.5)
##         :       MOTOCICLISTA_200 > 1:
##         :       :...attraction > 0: SI (26.1/8.5)
##         :           attraction <= 0:
##         :           :...crossing > 0: SI (77.7/31)
##         :               crossing <= 0:
##         :               :...ATROPELLADO_200 > 110: SI (848.7/400.
## 2)
##         :                   ATROPELLADO_200 <= 110:
##         :                   :...ACC_C_LESION_200 > 221: SI (68.1/
## 20.1)
##         :                       ACC_C_LESION_200 <= 221:
##         :                       :...MOTOCICLISTA_200 > 3:
##         :                       :...ACC_S_LESION_200 <= 36: N
## O (928.8/349.6)
##         :                       :   ACC_S_LESION_200 > 36:
##         :                       :   :...metro > 0: SI (62.5/2
## 7.4)
##         :                       :       metro <= 0:
##         :                       :       :...VOLCADURA_100 <=
## 2: NO (10899.5/4886.1)
##         :                       :           VOLCADURA_100 > 2
## :
##         :                       :           :...hospital_300
```

```
> 2: NO (28.4/5.9)
##            :                                :                        hospital_300
<= 2:
##            :                                :                          :...rtp_300 >
16: NO (84.4/26.1)
##            :                                :                          rtp_300 <
= 16: [S1]
##            :                             MOTOCICLISTA_200 <= 3:
##            :                             :...VEH_DESBARRANCADO_200 > 0
: SI (216.7/87.6)
##            :                             VEH_DESBARRANCADO_200 <=
0:
##            :                                :...rtp > 0: NO (160.1/51
.7)
##            :                                rtp <= 0:
##            :                                :...OTROS_200 > 1: SI
(364.5/160.3)
##            :                                OTROS_200 <= 1: [
S2]
##        interseccion > 0:
##        :...restaurant > 0: SI (429.2/120.6)
##            restaurant <= 0:
##            :...MOTOCICLISTA_100 > 6: SI (2323.1/935.2)
##                MOTOCICLISTA_100 <= 6:
##                :...rtp > 0: SI (1499.7/599.8)
##                    rtp <= 0:
##                    :...ACC_S_LESION_100 > 17:
##                        :...ACC_S_LESION_100 > 312: NO (30.7/6)
##                        :   ACC_S_LESION_100 <= 312:
##                        :   :...ACC_FATAL_100 > 2: NO (26.6/7.7)
##                        :       ACC_FATAL_100 <= 2:
##                        :       :...crossing > 0: SI (58.5/18)
##                        :           crossing <= 0:
##                        :           :...VOLCADURA_200 > 35: NO (1
51.4/62)
##                        :               VOLCADURA_200 <= 35:
##                        :               :...ATROPELLADO_200 > 126
: SI (128/31)
##                        :                   ATROPELLADO_200 <= 12
6:
##                        :                   :...ATROPELLADO_200 >
9: [S3]
```

```
##                                 :                   ATROPELLADO_200 <
= 9: [S4]
##                            ACC_S_LESION_100 <= 17:
##                            :...ATROPELLADO_100 > 23: SI (26.1/1.9)
##                                ATROPELLADO_100 <= 23:
##                                :...bar_300 > 6: NO (28.1/6.3)
##                                    bar_300 <= 6:
##                                    :...interseccion <= 2:
##                                        :...ATROPELLADO_FATAL_100 > 0
: NO (434.7/199.6)
##                                        :   ATROPELLADO_FATAL_100 <=
0:
##                                        :   :...traffic_signals_300 >
18: SI (33.9/9.3)
##                                        :       traffic_signals_300 <
= 18: [S5]
##                                        interseccion > 2:
##                                        :...metro_300 > 0: SI (279.8/
119.9)
##                                            metro_300 <= 0:
##                                            :...hospital_300 > 0: SI
(231.6/96.9)
##                                                hospital_300 <= 0:
##                                                :...VEH_ATRAPADO_200
> 0: NO (1250.1/612.6)
##                                                    VEH_ATRAPADO_200
<= 0: [S6]
##
## SubTree [S1]
##
## MOTOCICLISTA_100 <= 1: SI (386.2/162.2)
## MOTOCICLISTA_100 > 1:
## :...ACC_S_LESION_200 <= 69: SI (203/72.9)
##     ACC_S_LESION_200 > 69: NO (2655.1/1236.5)
##
## SubTree [S2]
##
## ACC_C_LESION_100 > 21: SI (615.1/271.1)
## ACC_C_LESION_100 <= 21:
## :...bar_300 > 4: NO (53.1/13.4)
##     bar_300 <= 4:
##     :...rtp_300 > 12: SI (303.6/136.3)
```

```
##           rtp_300 <= 12:
##           :...nightclub_300 > 0: SI (25.2/8.2)
##               nightclub_300 <= 0:
##               :...traffic_signals_300 > 12: NO (67/14.4)
##                   traffic_signals_300 <= 12:
##                   :...OTROS_200 > 0: SI (898.5/430.1)
##                       OTROS_200 <= 0:
##                       :...ATROPELLADO_100 <= 13: NO (3802.9/1669.4)
##                           ATROPELLADO_100 > 13: SI (278.2/123.6)
##
## SubTree [S3]
##
## ATROPELLADO_200 <= 96: SI (15236.2/6829.8)
## ATROPELLADO_200 > 96: NO (305/135.6)
##
## SubTree [S4]
##
## MOTOCICLISTA_200 > 9: NO (34.8/7.2)
## MOTOCICLISTA_200 <= 9:
## :...ACC_FATAL_200 > 0: SI (266.9/96.2)
##     ACC_FATAL_200 <= 0:
##     :...VOLCADURA_200 > 14: NO (46/12.7)
##         VOLCADURA_200 <= 14:
##         :...restaurant_300 > 6: NO (35.4/10)
##             restaurant_300 <= 6:
##             :...ATROPELLADO_100 <= 4: SI (1683.3/801.6)
##                 ATROPELLADO_100 > 4: NO (646.6/289.5)
##
## SubTree [S5]
##
## traffic_signals_300 > 16: NO (25.7/6.5)
## traffic_signals_300 <= 16:
## :...school_300 > 4: NO (94.9/34.9)
##     school_300 <= 4:
##     :...hotel_300 <= 0: SI (15502.7/7726.7)
##         hotel_300 > 0: NO (220.3/91.1)
##
## SubTree [S6]
##
## ACC_C_LESION_200 > 87: SI (62.7/15.9)
## ACC_C_LESION_200 <= 87:
## :...ACC_C_LESION_100 > 8: NO (485.6/218.7)
```

```
##       ACC_C_LESION_100 <= 8:
##       :...ACC_C_LESION_200 > 75: NO (48.9/12.7)
##           ACC_C_LESION_200 <= 75:
##           :...ACC_C_LESION_100 > 6: SI (502.4/206.6)
##               ACC_C_LESION_100 <= 6:
##               :...crossing_300 > 6: NO (87.6/32.9)
##                   crossing_300 <= 6:
##                   :...crossing_300 > 2: SI (103.9/36)
##                       crossing_300 <= 2:
##                       :...bar_300 > 0: NO (81.5/33.3)
##                           bar_300 <= 0:
##                           :...ATROPELLADO_FATAL_100 > 0: SI (298.7/
## 126.1)
##                               ATROPELLADO_FATAL_100 <= 0:
##                               :...OTROS_200 > 0: NO (1558.2/756.3)
##                                   OTROS_200 <= 0:
##                                   :...ACC_S_LESION_200 > 169: SI (2
## 5.9/2.3)
##                                       ACC_S_LESION_200 <= 169:
##                                       :...ACC_C_LESION_100 > 4: NO
## (790.1/375.2)
##                                           ACC_C_LESION_100 <= 4:
##                                           :...ACC_S_LESION_100 > 4:
## SI (4342.6/1974.8)
##                                               ACC_S_LESION_100 <= 4
## :
##                                               :...ATROPELLADO_200 <
## = 25: SI (3405.4/1654.2)
##                                                   ATROPELLADO_200 >
## 25: NO (109.3/34)
##
## -----  Trial 11:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0: NO (6138/593.8)
## ACC_S_LESION_200 > 0:
## :...cruce_peligroso > 0: SI (186.4/41.9)
##     cruce_peligroso <= 0:
##     :...ACC_S_LESION_100 <= 0:
##         :...ACC_C_LESION_100 > 0: SI (1202.3/561.3)
##         :    ACC_C_LESION_100 <= 0:
```

```
##              :     :...ATROPELLADO_FATAL_100 <= 0: NO (2484.1/444.4)
##              :           ATROPELLADO_FATAL_100 > 0: SI (33/8.8)
##         ACC_S_LESION_100 > 0:
##         :...rtp > 2: SI (234.3/66.1)
##             rtp <= 2:
##             :...PER_ATRAPADO_DESBARRANCADO_100 > 5: SI (580.5/235
## .7)
##                 PER_ATRAPADO_DESBARRANCADO_100 <= 5:
##                 :...metrobus > 0: SI (115/37.6)
##                     metrobus <= 0:
##                     :...trolebus > 0: SI (325.9/127.1)
##                         trolebus <= 0:
##                         :...interseccion <= 2:
##                             :...ACC_S_LESION_100 <= 24:
##                             :   :...ATROPELLADO_100 > 28: SI (88.
## 6/28.8)
##                             :   :   ATROPELLADO_100 <= 28:
##                             :   :   :...restaurant > 0: SI (131.3
## /52.1)
##                             :   :       restaurant <= 0:
##                             :   :       :...ACC_S_LESION_100 <= 1
## : NO (3761.6/1565.2)
##                             :   :           ACC_S_LESION_100 > 1:
## [S1]
##                             :   ACC_S_LESION_100 > 24:
##                             :   :...ACC_FATAL_200 > 6: NO (42.4/1
## 1.3)
##                             :       ACC_FATAL_200 <= 6:
##                             :       :...interseccion > 0:
##                             :           :...speed_camera_300 > 0:
## NO (27.2/7.1)
##                             :           :   speed_camera_300 <= 0
## :
##                             :           :   :...OTROS_200 > 5: SI
## (37/8.7)
##                             :           :       OTROS_200 <= 5: [
## S2]
##                             :           interseccion <= 0:
##                             :           :...cinema > 0: SI (34/13
## )
##                             :               cinema <= 0:
##                             :               :...hospital > 0: NO
```

```
##                                                (39.3/14)
##                      :                               hospital <= 0: [S
3]
##                                interseccion > 2:
##                                :...restaurant > 0: SI (101.4/15.1)
##                                    restaurant <= 0:
##                                    :...ATROPELLADO_FATAL_100 > 3: SI
(40.6/7.1)
##                                        ATROPELLADO_FATAL_100 <= 3:
##                                        :...ATROPELLADO_200 > 142: SI
(31.5)
##                                            ATROPELLADO_200 <= 142:
##                                            :...hotel_300 > 2: SI (80
.3/19.5)
##                                                hotel_300 <= 2:
##                                                :...rtp > 0: SI (588.
5/222.7)
##                                                    rtp <= 0:
##                                                    :...metro_300 > 0
: SI (1023.9/418)
##                                                        metro_300 <=
0: [S4]
##
## SubTree [S1]
##
## ATROPELLADO_FATAL_100 > 1: NO (114.4/40.1)
## ATROPELLADO_FATAL_100 <= 1:
## :...ATROPELLADO_FATAL_100 > 0: SI (1268.5/627)
##     ATROPELLADO_FATAL_100 <= 0:
##     :...interseccion <= 0:
##         :...ACC_C_LESION_200 <= 182: NO (14253/6418.3)
##         :    ACC_C_LESION_200 > 182: SI (41.6/11.4)
##         interseccion > 0:
##         :...MOTOCICLISTA_100 > 5: SI (48.8/15.1)
##             MOTOCICLISTA_100 <= 5:
##             :...rtp > 0: SI (303.4/142.6)
##                 rtp <= 0:
##                 :...traffic_signals_300 <= 18: NO (16817.8/7981.3
)
##                     traffic_signals_300 > 18: SI (47/13.6)
##
## SubTree [S2]
```

```
## 
## VEH_DESBARRANCADO_100 > 0: NO (121.9/51.2)
## VEH_DESBARRANCADO_100 <= 0:
## :...restaurant > 0: SI (200.2/76.1)
##      restaurant <= 0:
##      :...rtp > 0: NO (469.3/212)
##          rtp <= 0:
##          :...hospital_300 > 2: NO (168.5/69.3)
##              hospital_300 <= 2:
##              :...hotel_300 <= 2: SI (9203.9/4434.5)
##                  hotel_300 > 2: NO (253.8/115.5)
## 
## SubTree [S3]
## 
## ACC_FATAL_200 > 1: SI (1125.6/540.9)
## ACC_FATAL_200 <= 1:
## :...supermarket > 0: SI (84.9/36.5)
##      supermarket <= 0:
##      :...restaurant > 2: NO (67.6/25.4)
##          restaurant <= 2:
##          :...MOTOCICLISTA_200 > 15: NO (1137.3/502.5)
##              MOTOCICLISTA_200 <= 15:
##              :...ACC_PRENSADO_100 > 1: NO (43.4/14.7)
##                  ACC_PRENSADO_100 <= 1:
##                  :...VOLCADURA_100 > 12: SI (191.4/73.3)
##                      VOLCADURA_100 <= 12:
##                      :...VOLCADURA_100 > 9: NO (145.7/49.7)
##                          VOLCADURA_100 <= 9:
##                          :...ACC_PRENSADO_200 > 1: SI (67.5/26.2)
##                              ACC_PRENSADO_200 <= 1:
##                              :...VOLCADURA_200 > 7: SI (1407.2/662
## .9)
##                                  VOLCADURA_200 <= 7:
##                                  :...ATROPELLADO_FATAL_100 > 0: SI
## (1674.4/821.2)
##                                      ATROPELLADO_FATAL_100 <= 0:
##                                      :...hospital_300 <= 4: NO (78
## 77.7/3726.8)
##                                          hospital_300 > 4: SI (93.
## 7/40.1)
## 
## SubTree [S4]
```

```
##
## VEH_ATRAPADO_100 > 0: SI (893.1/389.7)
## VEH_ATRAPADO_100 <= 0:
## :...hospital_300 > 0: SI (493.2/210.2)
##     hospital_300 <= 0:
##     :...school > 0: SI (34.8/10.1)
##         school <= 0:
##         :...FERROVIARIO_200 > 0: NO (49.6/17.3)
##             FERROVIARIO_200 <= 0:
##             :...ATROPELLADO_100 <= 0:
##                 :...OTROS_200 > 1: NO (80.3/25.7)
##                 :   OTROS_200 <= 1:
##                 :   :...PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (1
55.3/68.4)
##                 :       PER_ATRAPADO_DESBARRANCADO_100 <= 0:
##                 :       :...VOLCADURA_100 <= 0: NO (2688.6/1261)
##                 :           VOLCADURA_100 > 0: SI (405.7/183.3)
##                 ATROPELLADO_100 > 0:
##                 :...VEH_ATRAPADO_200 > 2: NO (37/12.8)
##                     VEH_ATRAPADO_200 <= 2:
##                     :...OTROS_200 > 1: SI (759/332.9)
##                         OTROS_200 <= 1:
##                         :...ACC_C_LESION_100 > 96: NO (57.4/17.3)
##                             ACC_C_LESION_100 <= 96:
##                             :...bar_300 > 0: SI (191.9/75.2)
##                                 bar_300 <= 0:
##                                 :...ACC_C_LESION_200 > 94: SI (27
2.8/97.2)
##                                     ACC_C_LESION_200 <= 94:
##                                     :...VEH_DESBARRANCADO_200 > 0
: NO (382.7/177.6)
##                                         VEH_DESBARRANCADO_200 <=
0:
##                                         :...ACC_FATAL_200 > 2: SI
(31.9/8.2)
##                                             ACC_FATAL_200 <= 2: [
S5]
##
## SubTree [S5]
##
## traffic_signals_300 > 2: NO (851.6/400.5)
## traffic_signals_300 <= 2:
```

```
## :...restaurant_300 > 4: SI (98.6/33.9)
##      restaurant_300 <= 4:
##      :...VEH_ATRAPADO_200 > 0: SI (786.1/340.4)
##          VEH_ATRAPADO_200 <= 0:
##          :...ACC_PRENSADO_200 > 0: SI (398.4/168.4)
##              ACC_PRENSADO_200 <= 0:
##              :...PER_ATRAPADO_DESBARRANCADO_100 > 0: NO (731.3/346
## .6)
##                  PER_ATRAPADO_DESBARRANCADO_100 <= 0:
##                  :...ACC_C_LESION_200 > 84: NO (78.6/24.7)
##                      ACC_C_LESION_200 <= 84:
##                      :...hotel_300 > 0: NO (130.9/58.5)
##                          hotel_300 <= 0:
##                          :...ATROPELLADO_FATAL_200 > 2: SI (128.3/
## 48.5)
##                              ATROPELLADO_FATAL_200 <= 2:
##                              :...MOTOCICLISTA_200 <= 4: SI (8396.4
## /4029.6)
##                                  MOTOCICLISTA_200 > 4: NO (1821.1/
## 883)
##
## -----  Trial 12:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0:
## :...ACC_C_LESION_100 > 0: SI (550.4/272.7)
## :    ACC_C_LESION_100 <= 0:
## :    :...MOTOCICLISTA_100 > 0: SI (118.8/45.9)
## :        MOTOCICLISTA_100 <= 0:
## :        :...ATROPELLADO_100 <= 0: NO (4947.3/156.3)
## :            ATROPELLADO_100 > 0: SI (197.9/85.6)
## ACC_S_LESION_200 > 0:
## :...ACC_S_LESION_100 <= 0: NO (3706.7/1085.4)
##      ACC_S_LESION_100 > 0:
##      :...restaurant > 4: SI (53.3/11.8)
##          restaurant <= 4:
##          :...ACC_S_LESION_100 <= 1: NO (4972.1/2258)
##              ACC_S_LESION_100 > 1:
##              :...interseccion > 0: SI (50156/24136.4)
##                  interseccion <= 0:
##                  :...ATROPELLADO_FATAL_100 > 0: NO (4140.7/1904.4)
```

```
##                             ATROPELLADO_FATAL_100 <= 0:
##                             :...ACC_C_LESION_100 <= 15:
##                                 :...ATROPELLADO_100 <= 24: NO (18520/8855
## )
##                                 :   ATROPELLADO_100 > 24: SI (166.2/64.4)
##                                 ACC_C_LESION_100 > 15:
##                                 :...ATROPELLADO_200 <= 18: SI (1581.3/707
## .9)
##                                     ATROPELLADO_200 > 18:
##                                     :...VEH_ATRAPADO_100 <= 0: NO (4812.4
## /2337.5)
##                                         VEH_ATRAPADO_100 > 0: SI (586.9/2
## 65)
##
## -----  Trial 13:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0: NO (5657.1/602.5)
## ACC_S_LESION_200 > 0:
## :...cruce_peligroso > 0: SI (177.1/42.5)
##     cruce_peligroso <= 0:
##     :...traffic_signals > 0: SI (256.4/67.8)
##         traffic_signals <= 0:
##         :...rtp > 2: SI (219.6/72.6)
##             rtp <= 2:
##             :...restaurant > 0: SI (903.6/393.5)
##                 restaurant <= 0:
##                 :...rtp > 0:
##                     :...ACC_PRENSADO_100 > 1: NO (30.2/9.6)
##                     :   ACC_PRENSADO_100 <= 1:
##                     :   :...ACC_C_LESION_100 <= 1: NO (245.5/92.9
## )
##                     :       ACC_C_LESION_100 > 1: SI (2202/989.4)
##                     rtp <= 0:
##                     :...PER_ATRAPADO_DESBARRANCADO_200 <= 1:
##                         :...ATROPELLADO_200 <= 48: NO (69320.8/33
## 046.1)
##                         :   ATROPELLADO_200 > 48:
##                         :   :...bank > 0: SI (25.8/6.1)
##                         :       bank <= 0:
##                         :       :...crossing_300 > 6: SI (168.5/5
```

```
9.8)
##                          :           crossing_300 <= 6:
##                          :           :...metro_300 > 2: SI (170.2/
64.3)
##                          :               metro_300 <= 2:
##                          :               :...OTROS_100 > 1: SI (24
7.3/99.8)
##                          :                   OTROS_100 <= 1:
##                          :                   :...rtp_300 <= 2: SI
(1092.9/472.1)
##                          :                       rtp_300 > 2: NO (
3512.3/1703.3)
##                      PER_ATRAPADO_DESBARRANCADO_200 > 1:
##                      :...metro > 0: SI (46.5/14.2)
##                          metro <= 0:
##                          :...bar > 0: SI (55.8/17.7)
##                              bar <= 0:
##                              :...ACC_FATAL_100 > 2: NO (98.4/3
4.7)
##                                  ACC_FATAL_100 <= 2:
##                                  :...trolebus > 0: NO (80.3/30
.2)
##                                      trolebus <= 0:
##                                      :...bar_300 > 6: SI (321.
9/126.5)
##                                          bar_300 <= 6:
##                                          :...hospital_300 > 4:
NO (125.6/50.8)
##                                              hospital_300 <= 4
:
##                                              :...hotel_300 > 4
: SI (358.5/142)
##                                                  hotel_300 <=
4: [S1]
##
## SubTree [S1]
##
## ACC_S_LESION_200 <= 39: NO (1199.3/523.5)
## ACC_S_LESION_200 > 39:
## :...ACC_C_LESION_200 <= 6: SI (75.6/18.1)
##     ACC_C_LESION_200 > 6:
##     :...interseccion > 2: SI (1035/436.8)
```

```
##              interseccion <= 2:
##              :...ACC_FATAL_100 > 0: NO (697.2/314.2)
##                  ACC_FATAL_100 <= 0:
##                  :...VEH_DESBARRANCADO_100 > 0: SI (56.4/17.5)
##                      VEH_DESBARRANCADO_100 <= 0:
##                      :...hospital_300 > 2: SI (77.4/25.3)
##                          hospital_300 <= 2:
##                          :...ATROPELLADO_FATAL_200 > 0: NO (2374.8/113
## 8.8)
##                              ATROPELLADO_FATAL_200 <= 0:
##                              :...VEH_ATRAPADO_200 <= 1: SI (3503.9/163
## 0.5)
##                                  VEH_ATRAPADO_200 > 1: NO (174.1/67.8)
##
## -----  Trial 14:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0:
## :...ACC_C_LESION_100 > 0: NO (581.6/271.1)
## :   ACC_C_LESION_100 <= 0:
## :   :...VOLCADURA_100 > 0: SI (165.7/68.4)
## :       VOLCADURA_100 <= 0:
## :       :...OTROS_100 > 0: SI (46.2/14.2)
## :           OTROS_100 <= 0:
## :           :...PER_ATRAPADO_DESBARRANCADO_100 <= 0: NO (4590.1/1
## 84.6)
## :               PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (48.1/16.6
## )
## ACC_S_LESION_200 > 0:
## :...ACC_S_LESION_100 <= 0: NO (3536.9/1155.2)
##     ACC_S_LESION_100 > 0:
##     :...traffic_signals > 0: SI (275/73.2)
##         traffic_signals <= 0:
##         :...rtp > 2: SI (218.8/71.9)
##             rtp <= 2:
##             :...interseccion <= 2: SI (62576.3/30775.4)
##                 interseccion > 2:
##                 :...restaurant > 0: SI (87.4/11.7)
##                     restaurant <= 0:
##                     :...trolebus > 0: SI (57.9/9.6)
##                         trolebus <= 0:
```

```
##                                       :...VEH_ATRAPADO_100 > 2: SI (29.9/6.6)
##                                          VEH_ATRAPADO_100 <= 2:
##                                          :...hotel_300 > 0: SI (564.3/212.9)
##                                             hotel_300 <= 0:
##                                             :...ACC_FATAL_200 > 4: SI (32.4/6
.9)
##                                                ACC_FATAL_200 <= 4:
##                                                :...ACC_C_LESION_200 > 12: SI
(10872.9/4855.9)
##                                                   ACC_C_LESION_200 <= 12:
##                                                   :...hospital_300 > 0: SI
(126.4/51.7)
##                                                      hospital_300 <= 0:
##                                                      :...VEH_ATRAPADO_100
> 0: SI (322.3/139.1)
##                                                         VEH_ATRAPADO_100
<= 0: [S1]
##
## SubTree [S1]
##
## traffic_signals_300 > 2: SI (226.9/92.9)
## traffic_signals_300 <= 2:
## :...VEH_DESBARRANCADO_100 > 0: SI (161.7/70.8)
##     VEH_DESBARRANCADO_100 <= 0:
##     :...OTROS_100 > 1: NO (34.6/10.2)
##         OTROS_100 <= 1:
##         :...OTROS_100 > 0: SI (534.1/248.3)
##             OTROS_100 <= 0:
##             :...VOLCADURA_200 <= 3: NO (9152.7/4459.1)
##                 VOLCADURA_200 > 3: SI (267.9/110)
##
## -----  Trial 15:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0:
## :...ACC_C_LESION_100 > 0: NO (573.8/276.3)
## :     ACC_C_LESION_100 <= 0:
## :     :...VOLCADURA_100 > 0: SI (169.1/75.9)
## :         VOLCADURA_100 <= 0:
## :         :...ATROPELLADO_100 > 0: SI (195.6/92.7)
## :             ATROPELLADO_100 <= 0:
```

```
## :                  :...VEH_ATRAPADO_100 > 0: SI (39.1/12.1)
## :                     VEH_ATRAPADO_100 <= 0:
## :                  :...MOTOCICLISTA_100 <= 0: NO (4166.7/60.6)
## :                     MOTOCICLISTA_100 > 0: SI (102.2/44.4)
## ACC_S_LESION_200 > 0:
## :...cruce_peligroso > 0: SI (167.2/44.2)
##     cruce_peligroso <= 0:
##     :...traffic_signals > 0: SI (242.2/70.1)
##         traffic_signals <= 0:
##         :...rtp > 2: SI (210.5/76.3)
##             rtp <= 2:
##             :...interseccion <= 2:
##                 :...crossing > 2: SI (44.8/11.9)
##                 :   crossing <= 2:
##                 :   :...ACC_C_LESION_100 > 0: NO (55838.9/27200.9
## )
##                 :       ACC_C_LESION_100 <= 0:
##                 :       :...VOLCADURA_100 > 1: NO (168.3/49.8)
##                 :           VOLCADURA_100 <= 1:
##                 :           :...ACC_PRENSADO_200 > 0: NO (315.6/1
## 08.4)
##                 :               ACC_PRENSADO_200 <= 0:
##                 :               :...hospital_300 > 0: NO (243.2/9
## 5.3)
##                 :                   hospital_300 <= 0:
##                 :                   :...ACC_S_LESION_100 > 3:
##                 :                       :...OTROS_100 <= 0: SI (2
## 945.3/1450)
##                 :                       :   OTROS_100 > 0: NO (10
## 4.2/39.3)
##                 :                       ACC_S_LESION_100 <= 3: [S
## 1]
##                 interseccion > 2:
##                 :...MOTOCICLISTA_100 > 19: SI (26.6)
##                     MOTOCICLISTA_100 <= 19:
##                     :...restaurant > 0: SI (82.1/11.9)
##                         restaurant <= 0:
##                         :...hotel_300 > 2: SI (80.8/21.1)
##                             hotel_300 <= 2:
##                             :...hotel_300 > 0: SI (475.2/198.3)
##                                 hotel_300 <= 0:
##                                 :...ACC_PRENSADO_100 > 1: NO (50.
```

```
8/18.6)
##                                           ACC_PRENSADO_100 <= 1:
##                                           :...ACC_S_LESION_100 > 10: SI
(11399.4/5170.9)
##                                           ACC_S_LESION_100 <= 10:
##                                           :...ACC_PRENSADO_100 > 0:
SI (43.4/14.5)
##                                           ACC_PRENSADO_100 <= 0
:
##                                           :...bar_300 > 0: NO (
94.6/38.3)
##                                           bar_300 <= 0: [S2
]
##
## SubTree [S1]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (261.2/115.6)
## PER_ATRAPADO_DESBARRANCADO_100 <= 0:
## :...OTROS_100 <= 0: NO (5668.9/1974.7)
##     OTROS_100 > 0: SI (121.9/49.9)
##
## SubTree [S2]
##
## ATROPELLADO_100 > 9: SI (139.7/46)
## ATROPELLADO_100 <= 9:
## :...rtp > 0: NO (133/54.2)
##     rtp <= 0:
##     :...MOTOCICLISTA_200 > 7: NO (310.1/126)
##         MOTOCICLISTA_200 <= 7:
##         :...MOTOCICLISTA_100 > 1: SI (629.6/271.5)
##             MOTOCICLISTA_100 <= 1:
##             :...ACC_PRENSADO_200 > 0: NO (197.6/88.9)
##                 ACC_PRENSADO_200 <= 0:
##                 :...ATROPELLADO_FATAL_100 > 0: SI (211.3/87.9)
##                     ATROPELLADO_FATAL_100 <= 0:
##                     :...ACC_S_LESION_100 <= 1: SI (1760.6/794.4)
##                         ACC_S_LESION_100 > 1:
##                         :...VEH_ATRAPADO_100 > 0: SI (190.1/87.6)
##                             VEH_ATRAPADO_100 <= 0:
##                             :...VOLCADURA_100 <= 3: NO (7060.8/34
96.4)
##                                 VOLCADURA_100 > 3: SI (45.8/15.7)
```

```
##
## -----  Trial 16:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0: NO (5065.5/608.3)
## ACC_S_LESION_200 > 0:
## :...ACC_S_LESION_100 <= 0:
##     :...ACC_C_LESION_100 <= 0: NO (2182.7/516.2)
##     :   ACC_C_LESION_100 > 0: SI (1252.1/593.9)
##     ACC_S_LESION_100 > 0:
##     :...ACC_C_LESION_100 > 0: SI (74199.6/35646.9)
##         ACC_C_LESION_100 <= 0:
##         :...interseccion <= 2: NO (8043.1/3652.4)
##             interseccion > 2: SI (3765.9/1837.6)
##
## -----  Trial 17:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0:
## :...ACC_C_LESION_100 > 0: SI (561.7/271.5)
## :   ACC_C_LESION_100 <= 0:
## :   :...PER_ATRAPADO_DESBARRANCADO_100 <= 0: NO (4252.8/274.5)
## :       PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (52.1/18.2)
## ACC_S_LESION_200 > 0:
## :...traffic_signals > 0: SI (248.5/71.7)
##     traffic_signals <= 0:
##     :...interseccion <= 0:
##         :...metro_300 <= 0: NO (30695.5/13823.9)
##         :   metro_300 > 0:
##         :   :...FERROVIARIO_200 > 0: NO (25.2/6.7)
##         :       FERROVIARIO_200 <= 0:
##         :       :...ACC_S_LESION_200 <= 22: NO (36.9/4.1)
##         :           ACC_S_LESION_200 > 22:
##         :           :...VEH_ATRAPADO_100 > 0: SI (380.2/161.9)
##         :               VEH_ATRAPADO_100 <= 0:
##         :               :...VEH_ATRAPADO_200 > 1: NO (77.3/21.8)
##         :                   VEH_ATRAPADO_200 <= 1:
##         :                   :...bar_300 <= 0: SI (2531.8/1251.8)
##         :                       bar_300 > 0: NO (532.5/230.9)
##         interseccion > 0:
```

```
##              :...metrobus > 0: SI (52.6/5)
##              metrobus <= 0:
##              :...metro > 0: SI (46.3/10.9)
##                  metro <= 0:
##                  :...nightclub_300 > 2: SI (33.9/7.9)
##                      nightclub_300 <= 2:
##                      :...restaurant > 0: SI (350.7/127)
##                          restaurant <= 0:
##                          :...ATROPELLADO_200 > 128: SI (277.1/92.6
) 
##                              ATROPELLADO_200 <= 128:
##                              :...ATROPELLADO_FATAL_100 > 4: SI (34
.3/6.6)
##                                  ATROPELLADO_FATAL_100 <= 4:
##                                  :...hotel_300 > 0: SI (1854.5/829
.2)
##                                      hotel_300 <= 0:
##                                      :...ACC_S_LESION_100 <= 6:
##                                          :...VOLCADURA_100 > 5: NO
(52.6/12.9)
##                                          :   VOLCADURA_100 <= 5:
##                                          :   :...VOLCADURA_100 > 4
: SI (26.3/7)
##                                          :       VOLCADURA_100 <=
4: [S1]
##                                          ACC_S_LESION_100 > 6: [S2
]
##
## SubTree [S1]
##
## ATROPELLADO_100 > 8: SI (141.5/60.3)
## ATROPELLADO_100 <= 8:
## :...VEH_DESBARRANCADO_100 <= 0: NO (16376.6/7914.9)
##     VEH_DESBARRANCADO_100 > 0: SI (243.8/111.1)
##
## SubTree [S2]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 1: NO (1388.7/646.4)
## PER_ATRAPADO_DESBARRANCADO_100 <= 1:
## :...ACC_FATAL_200 > 4: SI (60.4/16.3)
##     ACC_FATAL_200 <= 4:
##     :...school_300 <= 0:
```

```
##               :...VEH_ATRAPADO_200 > 2: SI (204.8/79.6)
##               :   VEH_ATRAPADO_200 <= 2:
##               :   :...PER_ATRAPADO_DESBARRANCADO_200 > 5: NO (131.5/51.
3)
##               :           PER_ATRAPADO_DESBARRANCADO_200 <= 5:
##               :           :...ATROPELLADO_FATAL_100 <= 0: SI (26369.9/12889
)
##               :               ATROPELLADO_FATAL_100 > 0:
##               :               :...MOTOCICLISTA_200 > 24: SI (42.1/9)
##               :                   MOTOCICLISTA_200 <= 24:
##               :                   :...ATROPELLADO_100 > 72: NO (53.8/12.6)
##               :                       ATROPELLADO_100 <= 72:
##               :                       :...VEH_ATRAPADO_100 > 1: NO (30.4/9.
9)
##               :                           VEH_ATRAPADO_100 <= 1:
##               :                           :...MOTOCICLISTA_100 > 13: NO (10
0.1/33.2)
##               :                               MOTOCICLISTA_100 <= 13:
##               :                               :...interseccion > 4: SI (338
.8/146.2)
##               :                                   interseccion <= 4:
##               :                                   :...ACC_S_LESION_100 <= 5
6: NO (1550.9/681.6)
##               :                                       ACC_S_LESION_100 > 56
: SI (1066/497)
##           school_300 > 0:
##           :...bar_300 > 12: NO (25.3/5.9)
##               bar_300 <= 12:
##               :...ATROPELLADO_FATAL_100 > 1: SI (92.4/27.2)
##                   ATROPELLADO_FATAL_100 <= 1:
##                   :...PER_ATRAPADO_DESBARRANCADO_200 > 3: SI (102.8
/32.5)
##                       PER_ATRAPADO_DESBARRANCADO_200 <= 3:
##                       :...VOLCADURA_100 > 5: NO (176.4/66.7)
##                           VOLCADURA_100 <= 5:
##                           :...MOTOCICLISTA_100 > 6: SI (67.1/13.5)
##                               MOTOCICLISTA_100 <= 6:
##                               :...ACC_C_LESION_100 > 42: NO (144.6/
55.8)
##                                   ACC_C_LESION_100 <= 42:
##                                   :...ACC_PRENSADO_100 > 0: NO (51.
9/20.3)
```

```
##                                               ACC_PRENSADO_100 <= 0:
##                                               :...restaurant_300 > 2: SI (6
24.2/245.4)
##                                                   restaurant_300 <= 2:
##                                                   :...crossing_300 > 6: NO
(35.9/8.3)
##                                                       crossing_300 <= 6: [S
3]
##
## SubTree [S3]
##
## PER_ATRAPADO_DESBARRANCADO_200 <= 1: SI (2767.1/1277.7)
## PER_ATRAPADO_DESBARRANCADO_200 > 1: NO (190.3/75.4)
##
## -----  Trial 18:  -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0: NO (4632.6/496.2)
## ACC_S_LESION_200 > 0:
## :...traffic_signals > 0: SI (202.4/33.9)
##     traffic_signals <= 0:
##     :...cruce_peligroso > 0: SI (135.5/35.8)
##         cruce_peligroso <= 0:
##         :...ACC_S_LESION_100 <= 0: NO (3165.9/1003.3)
##             ACC_S_LESION_100 > 0:
##             :...rtp > 0: SI (2724.1/1263.4)
##                 rtp <= 0:
##                 :...bar_300 > 0: SI (3911.2/1828.1)
##                     bar_300 <= 0:
##                     :...interseccion <= 0: NO (29186.3/14133.7)
##                         interseccion > 0:
##                         :...metrobus > 0: SI (31.9/4.9)
##                             metrobus <= 0:
##                             :...crossing > 2: SI (30.7/7.4)
##                                 crossing <= 2:
##                                 :...supermarket > 0: SI (92.8/33.
5)
##                                     supermarket <= 0:
##                                     :...restaurant_300 > 18: SI (
176.4/60.6)
##                                         restaurant_300 <= 18:
```

```
##                                                      :...ACC_S_LESION_100 <= 6
:
##                                                         :...VOLCADURA_100 > 5
: NO (51.9/14)
##                                                         :   VOLCADURA_100 <=
5: [S1]
##                                                      ACC_S_LESION_100 > 6:
##                                                      :...ACC_FATAL_200 > 5
: SI (25.7/5.3)
##                                                          ACC_FATAL_200 <=
5:
##                                                          :...school_300 >
0: [S2]
##                                                             school_300 <=
0: [S3]
##
## SubTree [S1]
##
## VEH_DESBARRANCADO_200 > 1: NO (39.9/10.7)
## VEH_DESBARRANCADO_200 <= 1:
## :...OTROS_100 > 1: SI (35.5/11)
##     OTROS_100 <= 1:
##     :...OTROS_200 > 2: NO (54.4/19.6)
##         OTROS_200 <= 2:
##         :...ATROPELLADO_FATAL_100 > 0: NO (260.6/114.5)
##             ATROPELLADO_FATAL_100 <= 0:
##             :...hotel_300 > 0: NO (135.5/60)
##                 hotel_300 <= 0:
##                 :...OTROS_200 > 1: SI (236.3/99.1)
##                     OTROS_200 <= 1:
##                     :...VOLCADURA_100 > 2: NO (150.2/63.5)
##                         VOLCADURA_100 <= 2:
##                         :...OTROS_100 > 0: NO (508.2/240.7)
##                             OTROS_100 <= 0:
##                             :...MOTOCICLISTA_100 <= 0:
##                                 :...crossing_300 > 8: NO (70.2/26
.4)
##                                 :   crossing_300 <= 8:
##                                 :   :...ACC_S_LESION_200 > 124: S
I (166.7/58.8)
##                                 :       ACC_S_LESION_200 <= 124:
##                                 :       :...ACC_S_LESION_200 <= 6
```

```
7: SI (9885/4776.7)
##                                         :          ACC_S_LESION_200 > 67
: NO (492.9/213)
##                                 MOTOCICLISTA_100 > 0:
##                                 :...crossing_300 > 4: NO (33.3/9.
3)
##                                     crossing_300 <= 4:
##                                     :...ACC_PRENSADO_200 > 0: SI
(87.2/27.5)
##                                         ACC_PRENSADO_200 <= 0:
##                                         :...ACC_S_LESION_200 <= 3
4: SI (2440.6/1067.4)
##                                             ACC_S_LESION_200 > 34
: NO (603.1/279.2)
##
## SubTree [S2]
##
## metro_300 > 2: SI (45.7/12.9)
## metro_300 <= 2:
## :...ACC_FATAL_200 > 0: SI (637.2/256.6)
##     ACC_FATAL_200 <= 0:
##     :...VOLCADURA_100 > 8: SI (60/16.9)
##         VOLCADURA_100 <= 8:
##         :...VOLCADURA_100 > 5: NO (91.6/27)
##             VOLCADURA_100 <= 5:
##             :...MOTOCICLISTA_100 > 6: SI (77.9/23)
##                 MOTOCICLISTA_100 <= 6:
##                 :...PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (140.7
/53)
##                     PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##                     :...ATROPELLADO_200 > 79: SI (27.3/3.8)
##                         ATROPELLADO_200 <= 79:
##                         :...ATROPELLADO_FATAL_200 > 0: SI (654.1/
288.2)
##                             ATROPELLADO_FATAL_200 <= 0:
##                             :...ATROPELLADO_200 > 68: NO (51.6/11
.5)
##                                 ATROPELLADO_200 <= 68:
##                                 :...ACC_C_LESION_100 > 42: NO (64
.7/17)
##                                     ACC_C_LESION_100 <= 42:
##                                     :...school_300 > 6: SI (46.6/
```

```
13)
##                                                 school_300 <= 6:
##                                                 :...crossing_300 > 6: NO
(46.4/13.2)
##                                                 crossing_300 <= 6:
##                                                 :...MOTOCICLISTA_200
> 11: SI (33.6/5.2)
##                                                 MOTOCICLISTA_200
<= 11: [S4]
##
## SubTree [S3]
##
## MOTOCICLISTA_100 > 21: SI (27/5.5)
## MOTOCICLISTA_100 <= 21:
## :...VEH_ATRAPADO_200 > 2: SI (222.8/93.1)
##      VEH_ATRAPADO_200 <= 2:
##      :...interseccion > 4:
##           :...PER_ATRAPADO_DESBARRANCADO_200 > 4: SI (26/4.2)
##           :   PER_ATRAPADO_DESBARRANCADO_200 <= 4:
##           :   :...ACC_C_LESION_100 > 46: SI (98.9/23.7)
##           :       ACC_C_LESION_100 <= 46:
##           :       :...PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (34.3/
6.4)
##           :           PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##           :           :...MOTOCICLISTA_100 <= 3: NO (2895.7/1408.6)
##           :               MOTOCICLISTA_100 > 3: SI (280.6/111.9)
##           interseccion <= 4:
##           :...bank > 0: SI (47.2/17.5)
##               bank <= 0:
##               :...VOLCADURA_200 > 13: NO (1496/653.4)
##                   VOLCADURA_200 <= 13:
##                   :...ATROPELLADO_200 > 127: SI (94.2/18.8)
##                       ATROPELLADO_200 <= 127:
##                       :...ACC_C_LESION_200 > 136: SI (170.7/60.3)
##                           ACC_C_LESION_200 <= 136:
##                           :...rtp_300 > 4:
##                               :...PER_ATRAPADO_DESBARRANCADO_100 >
3: SI (38.2/10.6)
##                               :   PER_ATRAPADO_DESBARRANCADO_100 <=
3:
##                               :   :...MOTOCICLISTA_100 > 12: NO (82
.8/24.1)
```

```
##                                :           MOTOCICLISTA_100 <= 12:
##                                :           :...OTROS_100 <= 0: NO (8221.
9/3775.1)
##                                :               OTROS_100 > 0: SI (1143/5
45.7)
##                                rtp_300 <= 4:
##                                :...ACC_FATAL_200 > 2: SI (33.7/5)
##                                    ACC_FATAL_200 <= 2:
##                                    :...hotel_300 > 0: SI (285.6/119.
4)
##                                        hotel_300 <= 0: [S5]
##
## SubTree [S4]
##
## VOLCADURA_100 > 1: SI (200.6/75.6)
## VOLCADURA_100 <= 1:
## :...MOTOCICLISTA_100 <= 1: NO (1881.4/851)
##     MOTOCICLISTA_100 > 1: SI (464.5/206.9)
##
## SubTree [S5]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 12: NO (28/5.8)
## PER_ATRAPADO_DESBARRANCADO_200 <= 12:
## :...ACC_C_LESION_200 > 72: SI (863.9/372.3)
##     ACC_C_LESION_200 <= 72:
##     :...hospital_300 > 0: SI (376.8/170.9)
##         hospital_300 <= 0:
##         :...VEH_ATRAPADO_200 > 0: SI (1569/755.6)
##             VEH_ATRAPADO_200 <= 0:
##             :...MOTOCICLISTA_200 > 13: NO (71.4/19.1)
##                 MOTOCICLISTA_200 <= 13:
##                 :...traffic_signals_300 > 8: SI (262.8/117.7)
##                     traffic_signals_300 <= 8:
##                     :...interseccion <= 2: NO (7702/3655.7)
##                         interseccion > 2:
##                         :...ACC_S_LESION_200 <= 9: SI (36.6/6.3)
##                             ACC_S_LESION_200 > 9:
##                             :...ACC_C_LESION_200 <= 43: NO (3907/
1859)
##                                 ACC_C_LESION_200 > 43: SI (322.1/
128.2)
##
```

```
## -----   Trial 19:   -----
##
## Decision tree:
##
## ACC_S_LESION_200 <= 0: NO (4259.5/327.6)
## ACC_S_LESION_200 > 0:
## :...traffic_signals > 0: SI (164.4/4.2)
##     traffic_signals <= 0:
##     :...ACC_S_LESION_100 <= 0:
##         :...ACC_C_LESION_100 <= 0: NO (1663.7/210.6)
##         :   ACC_C_LESION_100 > 0: SI (1282.4/602.6)
##         ACC_S_LESION_100 > 0:
##         :...cruce_peligroso > 0: SI (126.9/32.1)
##             cruce_peligroso <= 0:
##             :...metrobus > 0: SI (131.2/43.2)
##                 metrobus <= 0:
##                 :...interseccion <= 2:
##                     :...ACC_S_LESION_200 > 19:
##                     :   :...turning_circle > 0: NO (53.8/15.7)
##                     :   :   turning_circle <= 0:
##                     :   :   :...kindergarten > 0: SI (38.9/10.6)
##                     :   :       kindergarten <= 0:
##                     :   :       :...metro_300 <= 0: SI (45379/221
## 38.2)
##                     :   :           metro_300 > 0: NO (5877.1/288
## 3.9)
##                     :   ACC_S_LESION_200 <= 19:
##                     :   :...metro_300 > 0: NO (63.8/17.8)
##                     :       metro_300 <= 0:
##                     :       :...ATROPELLADO_200 > 13: SI (233.7/9
## 2.4)
##                     :           ATROPELLADO_200 <= 13:
##                     :           :...rtp_300 > 12: NO (132.5/41.6)
##                     :               rtp_300 <= 12:
##                     :               :...rtp_300 > 10: SI (139.1/5
## 7.5)
##                     :                   rtp_300 <= 10:
##                     :                   :...rtp_300 > 8: NO (194/
## 73.9)
##                     :                       rtp_300 <= 8: [S1]
##                     interseccion > 2:
##                     :...MOTOCICLISTA_100 > 19: SI (25.9)
```

```
##                                            MOTOCICLISTA_100 <= 19:
##                                            :...restaurant > 0: SI (68.9/7.2)
##                                               restaurant <= 0:
##                                            :...metro_300 > 2: SI (77.7/14)
##                                               metro_300 <= 2:
##                                               :...trolebus > 0: SI (54.5/9.5)
##                                                  trolebus <= 0:
##                                                  :...rtp > 0: SI (487.1/155.8)
##                                                     rtp <= 0:
##                                                     :...hotel_300 > 2: SI (69
.5/22.4)
##                                                        hotel_300 <= 2:
##                                                        :...restaurant_300 >
6: SI (375.2/150.9)
##                                                           restaurant_300 <=
6: [S2]
##
## SubTree [S1]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 0: NO (1397.6/628.8)
## PER_ATRAPADO_DESBARRANCADO_200 <= 0:
## :...ACC_S_LESION_200 > 18: NO (409.6/161.5)
##     ACC_S_LESION_200 <= 18:
##     :...ATROPELLADO_FATAL_100 > 0: NO (294.8/126.8)
##         ATROPELLADO_FATAL_100 <= 0:
##         :...VEH_ATRAPADO_200 > 0: NO (365.1/157.9)
##             VEH_ATRAPADO_200 <= 0:
##             :...ACC_PRENSADO_100 > 0: NO (93.9/35.3)
##                 ACC_PRENSADO_100 <= 0:
##                 :...MOTOCICLISTA_100 > 0:
##                     :...school_300 <= 0: SI (2492.5/1177.9)
##                     :    school_300 > 0: NO (129.2/50.1)
##                     MOTOCICLISTA_100 <= 0:
##                     :...ACC_C_LESION_200 > 19: SI (55.7/14.9)
##                         ACC_C_LESION_200 <= 19:
##                         :...ACC_C_LESION_200 > 14: NO (63.4/17.7)
##                             ACC_C_LESION_200 <= 14:
##                             :...ATROPELLADO_100 <= 2: NO (5823.7/
2788.9)
##                                 ATROPELLADO_100 > 2: SI (866/396.
9)
##
```

```
## SubTree [S2]
##
## ACC_S_LESION_100 <= 3: NO (3757.5/1827.9)
## ACC_S_LESION_100 > 3:
## :...nightclub_300 > 0: NO (30.2/11.4)
##     nightclub_300 <= 0:
##     :...rtp_300 <= 0: SI (7327.1/3347.4)
##         rtp_300 > 0:
##         :...interseccion > 10: NO (32.7/8)
##             interseccion <= 10:
##             :...FERROVIARIO_200 > 0: NO (45.6/17.2)
##                 FERROVIARIO_200 <= 0:
##                 :...restaurant_300 > 4: NO (173.2/75.4)
##                     restaurant_300 <= 4:
##                     :...traffic_signals_300 > 10: SI (172.3/64.9)
##                         traffic_signals_300 <= 10:
##                         :...VEH_ATRAPADO_100 > 0: NO (502.7/230.7
## )
##                             VEH_ATRAPADO_100 <= 0:
##                             :...crossing_300 > 10: NO (36.4/10.9)
##                                 crossing_300 <= 10:
##                                 :...interseccion <= 4:
##                                     :...rtp_300 <= 16: SI (6278.7
## /3041.9)
##                                     :    rtp_300 > 16: NO (455/196
## .4)
##                                     interseccion > 4:
##                                     :...VEH_DESBARRANCADO_100 > 0
## : SI (29.6/7.9)
##                                         VEH_DESBARRANCADO_100 <=
## 0:
##                                         :...bar_300 > 0: NO (31.4
## /11.2)
##                                             bar_300 <= 0:
##                                             :...hospital_300 > 0:
## NO (79/28.9)
##                                                 hospital_300 <= 0
## : [S3]
##
## SubTree [S3]
##
## MOTOCICLISTA_100 > 3: SI (218.4/71.1)
```

```
## MOTOCICLISTA_100 <= 3:
## :...VOLCADURA_200 <= 1: SI (1465.2/647.6)
##     VOLCADURA_200 > 1: NO (783.2/366)
##
## -----  Trial 20:  -----
##
## Decision tree:
##
## traffic_signals > 0: SI (153.4)
## traffic_signals <= 0:
## :...bank > 0: SI (326.8/125.7)
##     bank <= 0:
##     :...trolebus > 0: SI (334.2/126.4)
##         trolebus <= 0:
##         :...ACC_S_LESION_100 <= 1:
##             :...interseccion <= 0: NO (6482/888.2)
##             :   interseccion > 0:
##             :   :...crossing_300 > 4: NO (47.8/5)
##             :       crossing_300 <= 4:
##             :       :...ACC_C_LESION_100 <= 0: NO (2878/997.1)
##             :           ACC_C_LESION_100 > 0: SI (2117.4/952.8)
##             ACC_S_LESION_100 > 1:
##             :...interseccion <= 2:
##                 :...ATROPELLADO_100 > 63: SI (698.5/291.3)
##                 :   ATROPELLADO_100 <= 63:
##                 :   :...PER_ATRAPADO_DESBARRANCADO_100 > 2: SI (1
939.8/902.5)
##                 :       PER_ATRAPADO_DESBARRANCADO_100 <= 2:
##                 :       :...ACC_S_LESION_200 > 528: SI (405.5/157
)
##                 :           ACC_S_LESION_200 <= 528:
##                 :           :...interseccion <= 0: NO (28917.5/13
713.9)
##                 :               interseccion > 0:
##                 :               :...hotel > 0: SI (28.8/8.2)
##                 :                   hotel <= 0:
##                 :                   :...ATROPELLADO_200 > 125: SI
(83.6/21)
##                 :                       ATROPELLADO_200 <= 125:
##                 :                       :...rtp > 2: SI (44.7/10.
5)
##                 :                           rtp <= 2:
```

```
##                      :                              :...restaurant > 0: S
I (155.6/53.1)
##                      :                              restaurant <= 0:
##                      :                              :...crossing_300
> 18: SI (48.9/12.6)
##                      :                              crossing_300
<= 18:
##                      :                              :...crossing
> 0: SI (42.4/13.9)
##                      :                              crossing
<= 0: [S1]
##                  interseccion > 2:
##                  :...ATROPELLADO_FATAL_100 > 3: SI (34.7/3.9)
##                      ATROPELLADO_FATAL_100 <= 3:
##                      :...restaurant > 0: SI (63.6/7.4)
##                          restaurant <= 0:
##                          :...metro_300 > 2: SI (76.7/14.5)
##                              metro_300 <= 2:
##                              :...rtp > 0: SI (417.5/96.9)
##                                  rtp <= 0:
##                                  :...MOTOCICLISTA_100 > 6: SI (574
.3/228.5)
##                                      MOTOCICLISTA_100 <= 6:
##                                      :...ATROPELLADO_200 > 117: SI
(34.4/3.7)
##                                          ATROPELLADO_200 <= 117: [
S2]
##
## SubTree [S1]
##
## metro_300 <= 0: NO (26551/12949.1)
## metro_300 > 0: SI (1843.1/852.8)
##
## SubTree [S2]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 7: SI (46.1/7.9)
## PER_ATRAPADO_DESBARRANCADO_200 <= 7:
## :...MOTOCICLISTA_200 > 22: NO (63.9/18.6)
##     MOTOCICLISTA_200 <= 22:
##     :...interseccion > 4: SI (5584.9/2638.9)
##         interseccion <= 4:
##         :...school > 0: SI (26.4/6)
```

```
##                         school <= 0:
##                         :...VEH_DESBARRANCADO_100 > 0: NO (169/72.8)
##                             VEH_DESBARRANCADO_100 <= 0:
##                             :...traffic_signals_300 > 24: NO (27.4/6.4)
##                                 traffic_signals_300 <= 24:
##                                 :...VEH_ATRAPADO_200 > 2: SI (51.5/16.3)
##                                     VEH_ATRAPADO_200 <= 2:
##                                     :...ACC_PRENSADO_200 > 1: SI (57/19.3)
##                                         ACC_PRENSADO_200 <= 1:
##                                         :...bar_300 > 0: SI (190.3/68.7)
##                                             bar_300 <= 0:
##                                             :...MOTOCICLISTA_100 > 5: NO (209
.9/86)
##                                                 MOTOCICLISTA_100 <= 5:
##                                                 :...hospital_300 > 0: SI (316
.4/134.7)
##                                                     hospital_300 <= 0: [S3]
##
## SubTree [S3]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (971.9/430.1)
## PER_ATRAPADO_DESBARRANCADO_100 <= 0:
## :...PER_ATRAPADO_DESBARRANCADO_200 > 4: NO (26.3/6.8)
##     PER_ATRAPADO_DESBARRANCADO_200 <= 4:
##     :...restaurant_300 > 12: NO (35.5/9.9)
##         restaurant_300 <= 12:
##         :...restaurant_300 > 6: SI (60.4/17.8)
##             restaurant_300 <= 6:
##             :...ACC_FATAL_100 > 0: SI (390.9/175.4)
##                 ACC_FATAL_100 <= 0:
##                 :...metro_300 > 0: SI (406.5/187.1)
##                     metro_300 <= 0:
##                     :...school_300 > 4: NO (72/28.2)
##                         school_300 <= 4:
##                         :...VEH_ATRAPADO_100 > 0: NO (437.3/200)
##                             VEH_ATRAPADO_100 <= 0:
##                             :...ACC_S_LESION_100 > 108: SI (66.2/
16.1)
##                                 ACC_S_LESION_100 <= 108:
##                                 :...VEH_ATRAPADO_200 > 1: NO (63.
7/26.2)
##                                     VEH_ATRAPADO_200 <= 1:
```

```
##                                          :...hotel_300 > 0: NO (170.1/
## 74.6)
##                                              hotel_300 <= 0:
##                                              :...rtp_300 > 2: NO (4532
## .4/2190)
##                                                  rtp_300 <= 2:
##                                                  :...ACC_C_LESION_200
## > 28: SI (658.4/263.4)
##                                                      ACC_C_LESION_200
## <= 28:
##                                                      :...crossing_300
## > 2: SI (51/13)
##                                                          crossing_300
## <= 2: [S4]
##
## SubTree [S4]
##
## crossing_300 > 0: NO (89.8/32)
## crossing_300 <= 0:
## :...ACC_FATAL_200 <= 0: SI (4801.9/2342.9)
##     ACC_FATAL_200 > 0: NO (228.7/100.7)
##
## -----  Trial 21:  -----
##
## Decision tree:
##
## traffic_signals > 0: SI (146.9)
## traffic_signals <= 0:
## :...ACC_S_LESION_200 <= 0: NO (3656.7/32.9)
##     ACC_S_LESION_200 > 0:
##     :...cruce_peligroso > 0: SI (110.2/9.4)
##         cruce_peligroso <= 0:
##         :...turning_circle > 0: NO (74.7/21.4)
##             turning_circle <= 0:
##             :...supermarket > 0: SI (232.5/82.6)
##                 supermarket <= 0:
##                 :...restaurant > 0: SI (785.2/311.2)
##                     restaurant <= 0:
##                     :...interseccion <= 0:
##                         :...bar_300 > 0: NO (2168/988.8)
##                         :    bar_300 <= 0:
##                         :    :...MOTOCICLISTA_100 <= 2:
```

```
##                               :      :...OTROS_200 > 4: NO (32.7/7.7)
##                               :      :   OTROS_200 <= 4:
##                               :      :   :...VEH_DESBARRANCADO_100 > 1
: SI (25.9/7.2)
##                               :      :       VEH_DESBARRANCADO_100 <=
1:
##                               :      :       :...ACC_PRENSADO_200 > 1:
NO (165.6/62.2)
##                               :      :           ACC_PRENSADO_200 <= 1
: [S1]
##                               :       MOTOCICLISTA_100 > 2:
##                               :       :...ACC_FATAL_200 > 6: NO (29.3/6
.8)
##                               :           ACC_FATAL_200 <= 6:
##                               :           :...VOLCADURA_200 > 53: NO (5
5.8/18.3)
##                               :               VOLCADURA_200 <= 53:
##                               :               :...rtp_300 > 4: SI (4165
.4/1920.9)
##                               :                   rtp_300 <= 4:
##                               :                   :...MOTOCICLISTA_100
> 13: SI (91.6/29.2)
##                               :                       MOTOCICLISTA_100
<= 13: [S2]
##                           interseccion > 0:
##                           :...bank > 0: SI (81.5/10.5)
##                               bank <= 0:
##                               :...bar > 0: SI (33/4.1)
##                                   bar <= 0:
##                                   :...OTROS_200 > 4: SI (160.7/47.9
)
##                                       OTROS_200 <= 4:
##                                       :...ACC_C_LESION_100 <= 11:
##                                           :...bar_300 > 8: NO (39.3
/8.5)
##                                           :   bar_300 <= 8:
##                                           :   :...MOTOCICLISTA_100
> 6: SI (64.5/18)
##                                           :       MOTOCICLISTA_100
<= 6: [S3]
##                                           ACC_C_LESION_100 > 11:
##                                           :...hotel > 0: SI (31/3.9
```

```
##                                               )
##                                                 hotel <= 0:
##                                                 :...crossing > 0: SI
(45.3/7.8)
##                                                 crossing <= 0:
##                                                 :...interseccion
> 2: SI (3702.4/1320.4)
##                                                      interseccion
<= 2: [S4]
##
## SubTree [S1]
##
## ATROPELLADO_FATAL_100 > 2: SI (54.4/19.2)
## ATROPELLADO_FATAL_100 <= 2:
## :...ACC_C_LESION_200 <= 164: NO (22411.2/9954.6)
##     ACC_C_LESION_200 > 164: SI (168.5/59.2)
##
## SubTree [S2]
##
## traffic_signals_300 > 16: NO (77.2/24.5)
## traffic_signals_300 <= 16:
## :...ACC_FATAL_100 > 1: SI (113.7/47.7)
##     ACC_FATAL_100 <= 1:
##     :...VEH_ATRAPADO_100 <= 1: NO (3241.5/1595.1)
##         VEH_ATRAPADO_100 > 1: SI (59.2/19.9)
##
## SubTree [S3]
##
## restaurant_300 > 14: SI (178.5/58.1)
## restaurant_300 <= 14:
## :...bar_300 > 2: SI (49.9/16.6)
##     bar_300 <= 2:
##     :...ACC_S_LESION_100 <= 10:
##         :...school_300 > 4: NO (122.8/47)
##         :   school_300 <= 4:
##         :   :...ACC_C_LESION_100 <= 1:
##         :       :...MOTOCICLISTA_100 > 2: SI (94/36.1)
##         :       :   MOTOCICLISTA_100 <= 2:
##         :       :   :...school_300 <= 2: NO (13996.9/6651.6)
##         :       :       school_300 > 2: SI (220.5/98.3)
##         :       ACC_C_LESION_100 > 1:
##         :       :...ACC_C_LESION_100 > 9: NO (199.6/83.2)
```

```
##           :                       ACC_C_LESION_100 <= 9:
##           :                       :...crossing_300 > 8: NO (56/16.8)
##           :                          crossing_300 <= 8:
##           :                          :...ATROPELLADO_100 > 8: SI (303.3/114.9)
##           :                             ATROPELLADO_100 <= 8:
##           :                             :...MOTOCICLISTA_200 > 6: NO (576.9/2
57.9)
##           :                                MOTOCICLISTA_200 <= 6:
##           :                                :...ATROPELLADO_FATAL_200 > 2: NO
(45.9/14.7)
##           :                                   ATROPELLADO_FATAL_200 <= 2:
##           :                                   :...traffic_signals_300 > 8:
SI (67.6/22.2)
##           :                                      traffic_signals_300 <= 8:
##           :                                      :...traffic_signals_300 <
= 4: SI (8677.1/4110.9)
##           :                                         traffic_signals_300 >
4: NO (138.8/57.9)
##           ACC_S_LESION_100 > 10:
##           :...ACC_PRENSADO_200 > 1: SI (67.1/15.8)
##              ACC_PRENSADO_200 <= 1:
##              :...VEH_ATRAPADO_100 > 1: SI (51.4/15.5)
##                 VEH_ATRAPADO_100 <= 1:
##                 :...interseccion > 8: NO (110.8/43.2)
##                    interseccion <= 8:
##                    :...crossing_300 > 4: SI (313.8/115.2)
##                       crossing_300 <= 4:
##                       :...ATROPELLADO_200 <= 5:
##                          :...VOLCADURA_200 <= 2: NO (2071.9/99
1.8)
##                          :   VOLCADURA_200 > 2: SI (290.5/124.
7)
##                          ATROPELLADO_200 > 5:
##                          :...OTROS_200 > 2: NO (179.6/79.3)
##                             OTROS_200 <= 2:
##                             :...hotel_300 > 2: SI (48.8/12.5)
##                                hotel_300 <= 2:
##                                :...hospital_300 > 2: NO (112
.1/47.7)
##                                   hospital_300 <= 2:
##                                   :...ACC_S_LESION_200 <= 2
69: SI (14600.2/6689.4)
```

```
##                                                    ACC_S_LESION_200 > 26
9: NO (351.2/151.2)
##
## SubTree [S4]
##
## restaurant_300 > 30: SI (79.2/19.7)
## restaurant_300 <= 30:
## :...ACC_FATAL_100 > 0: SI (1482.1/706.8)
##       ACC_FATAL_100 <= 0:
##       :...ATROPELLADO_200 > 50: SI (1553/587.1)
##           ATROPELLADO_200 <= 50:
##           :...OTROS_200 > 2: NO (161.6/66.4)
##               OTROS_200 <= 2:
##               :...PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (345.2/127
.3)
##                   PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##                   :...VOLCADURA_200 > 25: NO (116.4/40.9)
##                       VOLCADURA_200 <= 25:
##                       :...restaurant_300 > 14: NO (118.9/43.5)
##                           restaurant_300 <= 14:
##                           :...ATROPELLADO_FATAL_100 > 0: SI (774.8/
309.4)
##                               ATROPELLADO_FATAL_100 <= 0:
##                               :...ACC_FATAL_200 > 1: SI (44.1/11)
##                                   ACC_FATAL_200 <= 1:
##                                   :...traffic_signals_300 > 0: NO (
813.4/378.7)
##                                       traffic_signals_300 <= 0:
##                                       :...ACC_C_LESION_200 <= 117:
SI (3091/1361)
##                                           ACC_C_LESION_200 > 117: N
O (87.9/28.9)
##
## -----  Trial 22:  -----
##
## Decision tree:
##
## traffic_signals > 0: SI (139.3)
## traffic_signals <= 0:
## :...cruce_peligroso > 0: SI (102.2/6.7)
##       cruce_peligroso <= 0:
##       :...ACC_S_LESION_100 <= 0: NO (5721.6/315.6)
```

```
##             ACC_S_LESION_100 > 0:
##           :...rtp > 0: SI (2303.4/766.6)
##               rtp <= 0:
##               :...bank > 0: SI (269.7/99.1)
##                   bank <= 0:
##                   :...interseccion <= 0:
##                       :...ACC_S_LESION_100 <= 4: NO (3549.3/874.9)
##                       :   ACC_S_LESION_100 > 4:
##                       :   :...restaurant > 0: NO (530.5/228.1)
##                       :       restaurant <= 0:
##                       :       :...MOTOCICLISTA_200 > 13:
##                       :           :...MOTOCICLISTA_200 > 35: SI (39
.6/10.1)
##                       :           :   MOTOCICLISTA_200 <= 35:
##                       :           :   :...rtp_300 <= 6: SI (1333.2/
657.6)
##                       :           :       rtp_300 > 6: NO (1370/596
.5)
##                       :           MOTOCICLISTA_200 <= 13:
##                       :           :...metro > 0: SI (50.6/16.9)
##                       :               metro <= 0:
##                       :               :...nightclub_300 > 0: SI (31
0.1/130.1)
##                       :                   nightclub_300 <= 0:
##                       :                   :...ACC_S_LESION_200 <= 3
6: NO (5078.6/2454.3)
##                       :                       ACC_S_LESION_200 > 36
:
##                       :                       :...ACC_FATAL_200 > 0
: [S1]
##                       :                           ACC_FATAL_200 <=
0: [S2]
##                       interseccion > 0:
##                       :...metrobus > 0: SI (32.7)
##                           metrobus <= 0:
##                           :...supermarket > 0: SI (84.3/18.4)
##                               supermarket <= 0:
##                               :...school > 0: SI (140.1/43.2)
##                                   school <= 0:
##                                   :...bar_300 > 0: SI (1336/440.1)
##                                       bar_300 <= 0: [S3]
##
```

```
## SubTree [S1]
##
## ATROPELLADO_FATAL_200 > 1: SI (817.7/326)
## ATROPELLADO_FATAL_200 <= 1:
## :...VOLCADURA_200 <= 6: NO (2058.3/994.9)
##     VOLCADURA_200 > 6: SI (854.8/362.3)
##
## SubTree [S2]
##
## VEH_ATRAPADO_200 > 3: NO (32.2/9.3)
## VEH_ATRAPADO_200 <= 3:
## :...crossing > 0: SI (53.3/20)
##     crossing <= 0:
##     :...VOLCADURA_100 > 12: SI (120/40.9)
##         VOLCADURA_100 <= 12:
##         :...VOLCADURA_100 > 10: NO (58.2/17.2)
##             VOLCADURA_100 <= 10:
##             :...ACC_PRENSADO_100 > 0: SI (444.6/199.3)
##                 ACC_PRENSADO_100 <= 0:
##                 :...hotel > 0: SI (30.5/10.9)
##                     hotel <= 0:
##                     :...ATROPELLADO_FATAL_100 > 2: NO (69.8/26.3)
##                         ATROPELLADO_FATAL_100 <= 2:
##                         :...MOTOCICLISTA_200 > 6:
##                             :...MOTOCICLISTA_200 <= 12: NO (3431.
5/1659.4)
##                             :   MOTOCICLISTA_200 > 12: SI (229.7/
87.6)
##                             MOTOCICLISTA_200 <= 6:
##                             :...trolebus > 0: SI (33.8/10.1)
##                                 trolebus <= 0:
##                                 :...hotel_300 > 4: SI (79.9/26)
##                                     hotel_300 <= 4:
##                                     :...VOLCADURA_100 > 6: SI (14
8.2/49)
##                                         VOLCADURA_100 <= 6:
##                                         :...bar_300 > 0: NO (573.
7/251.3)
##                                             bar_300 <= 0: [S4]
##
## SubTree [S3]
##
```

```
## PER_ATRAPADO_DESBARRANCADO_100 > 6: SI (49.1/9.7)
## PER_ATRAPADO_DESBARRANCADO_100 <= 6:
## :...VEH_DESBARRANCADO_200 > 1: NO (144.9/59)
##     VEH_DESBARRANCADO_200 <= 1:
##     :...MOTOCICLISTA_200 > 11:
##         :...ACC_C_LESION_100 > 181: NO (34.4/7.7)
##         :   ACC_C_LESION_100 <= 181:
##         :   :...rtp_300 <= 0: SI (366/95.7)
##         :       rtp_300 > 0:
##         :       :...ATROPELLADO_200 <= 15: NO (116.6/41.5)
##         :           ATROPELLADO_200 > 15: SI (2524.8/1029.5)
##         MOTOCICLISTA_200 <= 11:
##         :...restaurant_300 > 16: SI (176.8/53.2)
##             restaurant_300 <= 16:
##             :...ACC_C_LESION_100 > 13:
##                 :...interseccion > 2: SI (1937.5/566.9)
##                 :   interseccion <= 2:
##                 :   :...MOTOCICLISTA_100 > 6: NO (367.5/153)
##                 :       MOTOCICLISTA_100 <= 6:
##                 :       :...OTROS_100 > 2: NO (48/15.6)
##                 :           OTROS_100 <= 2:
##                 :           :...VEH_DESBARRANCADO_100 > 0: NO (62
.3/23.5)
##                 :               VEH_DESBARRANCADO_100 <= 0:
##                 :               :...VEH_ATRAPADO_100 > 1: SI (52.
3/15.4)
##                 :                   VEH_ATRAPADO_100 <= 1:
##                 :                   :...crossing_300 > 0: SI (303
.2/114.3)
##                 :                       crossing_300 <= 0:
##                 :                       :...rtp_300 <= 6: SI (288
2.7/1292.6)
##                 :                           rtp_300 > 6: NO (1356
.7/655.3)
##                 ACC_C_LESION_100 <= 13:
##                 :...ACC_C_LESION_100 <= 1:
##                     :...school_300 > 4: NO (75.8/29)
##                     :   school_300 <= 4:
##                     :   :...ACC_S_LESION_100 > 19: SI (219.2/72.5
)
##                     :       ACC_S_LESION_100 <= 19:
##                     :       :...OTROS_200 > 2: NO (42.5/15.8)
```

```
##                       :                        OTROS_200 <= 2:
##                       :                        :...OTROS_100 > 1: NO (44.1/15.5)
##                       :                            OTROS_100 <= 1:
##                       :                            :...hotel_300 > 0: NO (141.7/
## 62.6)
##                       :                                hotel_300 <= 0:
##                       :                                :...VOLCADURA_100 > 2: SI
## (94.3/31.9)
##                       :                                    VOLCADURA_100 <= 2:
##                       :                                    :...VOLCADURA_100 > 1
## : NO (302.4/140.1)
##                       :                                        VOLCADURA_100 <=
## 1:
##                       :                                        :...school_300 >
## 2: NO (231.9/108.9)
##                       :                                            school_300 <=
## 2: [S5]
##                       ACC_C_LESION_100 > 1:
##                       :...trolebus > 0: NO (44.8/15.5)
##                           trolebus <= 0:
##                           :...OTROS_100 > 1: SI (134.2/51.4)
##                               OTROS_100 <= 1:
##                               :...school_300 > 2: SI (733/302)
##                                   school_300 <= 2:
##                                   :...ACC_S_LESION_100 <= 17:
##                                       :...ATROPELLADO_100 <= 19: NO
## (16251.8/7868.8)
##                                       :   ATROPELLADO_100 > 19: SI
## (52.5/10.7)
##                                       ACC_S_LESION_100 > 17:
##                                       :...interseccion > 2: [S6]
##                                           interseccion <= 2:
##                                           :...ATROPELLADO_200 <= 3:
## SI (221.1/76.4)
##                                               ATROPELLADO_200 > 3:
##                                               :...MOTOCICLISTA_100
## > 1: NO (2021/956.3)
##                                                   MOTOCICLISTA_100
## <= 1:
##                                                   :...crossing_300
## > 4: SI (71.4/22)
##                                                       crossing_300
```

```
<= 4: [S7]
##
## SubTree [S4]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (1565.7/688.7)
## PER_ATRAPADO_DESBARRANCADO_100 <= 0:
## :...hospital_300 > 2: NO (69.8/21.6)
##      hospital_300 <= 2:
##      :...PER_ATRAPADO_DESBARRANCADO_200 > 4: SI (63.3/16.7)
##          PER_ATRAPADO_DESBARRANCADO_200 <= 4:
##          :...ACC_PRENSADO_200 > 0: NO (234.5/103.4)
##              ACC_PRENSADO_200 <= 0:
##              :...restaurant_300 <= 2: SI (6498.9/3076)
##                  restaurant_300 > 2: NO (631.5/282.3)
##
## SubTree [S5]
##
## MOTOCICLISTA_100 > 0: SI (3223.2/1411)
## MOTOCICLISTA_100 <= 0:
## :...ACC_S_LESION_100 <= 15: SI (11016.4/5086.4)
##      ACC_S_LESION_100 > 15: NO (225.5/91.6)
##
## SubTree [S6]
##
## VEH_DESBARRANCADO_100 > 0: NO (33.5/10.3)
## VEH_DESBARRANCADO_100 <= 0:
## :...VEH_ATRAPADO_100 > 0: SI (129.8/31)
##      VEH_ATRAPADO_100 <= 0:
##      :...crossing_300 > 4: SI (56.6/18.7)
##          crossing_300 <= 4:
##          :...ACC_S_LESION_200 <= 44: NO (766.2/350.4)
##              ACC_S_LESION_200 > 44: SI (2346.3/951)
##
## SubTree [S7]
##
## traffic_signals_300 > 8: NO (131.1/48.8)
## traffic_signals_300 <= 8:
## :...ACC_FATAL_200 > 0: SI (376.2/150.6)
##      ACC_FATAL_200 <= 0:
##      :...ATROPELLADO_100 > 11: NO (465/206.9)
##          ATROPELLADO_100 <= 11:
##          :...ACC_C_LESION_200 > 59: SI (109.5/29.2)
```

```
##                    ACC_C_LESION_200 <= 59:
##                    :...ATROPELLADO_200 > 41: NO (71.1/20.9)
##                       ATROPELLADO_200 <= 41:
##                       :...OTROS_200 <= 1: SI (2265.3/1053.3)
##                          OTROS_200 > 1: NO (80.4/28.9)
##
## -----  Trial 23:  -----
##
## Decision tree:
##
## cruce_peligroso > 0: SI (104.3)
## cruce_peligroso <= 0:
## :...traffic_signals > 0: SI (116.7)
##     traffic_signals <= 0:
##     :...ACC_S_LESION_100 <= 0: NO (5262.1/173.9)
##         ACC_S_LESION_100 > 0:
##         :...interseccion <= 0:
##             :...ACC_S_LESION_100 <= 3: NO (2278/190.2)
##             :   ACC_S_LESION_100 > 3:
##             :   :...ACC_C_LESION_200 <= 4: NO (1265.5/305)
##             :       ACC_C_LESION_200 > 4:
##             :       :...ACC_S_LESION_100 <= 18:
##             :           :...metro_300 > 2: SI (42.5/16.1)
##             :           :   metro_300 <= 2:
##             :           :   :...nightclub_300 > 0: SI (62/25.8)
##             :           :       nightclub_300 <= 0:
##             :           :       :...crossing_300 > 12: SI (66.8/2
## 4.5)
##             :           :           crossing_300 <= 12:
##             :           :           :...school > 0: SI (50.7/21)
##             :           :               school <= 0:
##             :           :               :...VOLCADURA_100 > 4: SI
## (431.2/194.6)
##             :           :                   VOLCADURA_100 <= 4:
##             :           :                   :...ACC_S_LESION_200
## <= 30: NO (1709.9/494.5)
##             :           :                       ACC_S_LESION_200
## > 30: [S1]
##             :           ACC_S_LESION_100 > 18:
##             :           :...ACC_FATAL_200 > 4: NO (132.5/46.1)
##             :               ACC_FATAL_200 <= 4:
##             :               :...metro_300 > 0:
```

```
##                  :                              :...ATROPELLADO_100 > 120: SI (25
   .2/2.5)
##                  :                              :   ATROPELLADO_100 <= 120:
##                  :                              :   :...VEH_ATRAPADO_100 > 0: SI
   (409.9/175.7)
##                  :                              :       VEH_ATRAPADO_100 <= 0:
##                  :                              :       :...VEH_ATRAPADO_200 > 1:
   NO (75.1/25.6)
##                  :                              :           VEH_ATRAPADO_200 <= 1
   :
##                  :                              :           :...ACC_FATAL_200 > 1
   : SI (310.3/132)
##                  :                              :               ACC_FATAL_200 <=
   1: [S2]
##                  :                          metro_300 <= 0:
##                  :                          :...ATROPELLADO_200 <= 2: SI (272
   .8/110.9)
##                  :                              ATROPELLADO_200 > 2:
##                  :                              :...restaurant_300 > 0: [S3]
##                  :                                  restaurant_300 <= 0:
##                  :                                  :...rtp_300 > 22: NO (48.
   4/8.7)
##                  :                                      rtp_300 <= 22:
##                  :                                      :...VOLCADURA_200 > 5
   3: NO (25.5/3.3)
##                  :                                          VOLCADURA_200 <=
   53: [S4]
##              interseccion > 0:
##              :...hotel > 0: SI (36.8)
##                  hotel <= 0:
##                  :...metrobus > 0: SI (35.7)
##                      metrobus <= 0:
##                      :...bank > 0: SI (75.5/2.6)
##                          bank <= 0:
##                          :...rtp > 0: SI (1013.9/111.3)
##                              rtp <= 0:
##                              :...supermarket > 0: SI (64.1/2.6)
##                                  supermarket <= 0:
##                                  :...restaurant > 0: SI (176.8/15.
   1)
##                                      restaurant <= 0:
##                                      :...crossing > 2: SI (26.3/4.
```

```
3)
##                                                crossing <= 2:
##                                                :...bar_300 > 0: SI (1084
.2/298.2)
##                                                   bar_300 <= 0:
##                                                   :...restaurant_300 >
14: SI (239.3/61.6)
##                                                      restaurant_300 <=
14:
##                                                      :...trolebus > 0:
SI (97.7/30.8)
##                                                         trolebus <= 0
:
##                                                         :...ACC_C_LES
ION_100 <= 1: [S5]
##                                                            ACC_C_LES
ION_100 > 1: [S6]
##
## SubTree [S1]
##
## ACC_PRENSADO_200 > 1: NO (40.5/8.8)
## ACC_PRENSADO_200 <= 1:
## :...ACC_FATAL_200 > 2: SI (72.3/28.6)
##     ACC_FATAL_200 <= 2:
##     :...PER_ATRAPADO_DESBARRANCADO_200 > 1: SI (717.3/344.8)
##         PER_ATRAPADO_DESBARRANCADO_200 <= 1:
##         :...PER_ATRAPADO_DESBARRANCADO_100 <= 0: NO (4482.7/1818.
8)
##             PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (250/115)
##
## SubTree [S2]
##
## ACC_C_LESION_100 > 105: NO (26.1/1.5)
## ACC_C_LESION_100 <= 105:
## :...VEH_ATRAPADO_200 <= 0: SI (2185.7/1074.4)
##     VEH_ATRAPADO_200 > 0: NO (327.4/139.8)
##
## SubTree [S3]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 4: NO (1170.9/530.4)
## PER_ATRAPADO_DESBARRANCADO_200 <= 4:
## :...OTROS_100 > 2: SI (62.3/20.1)
```

```
##          OTROS_100 <= 2:
##          :...MOTOCICLISTA_100 > 9: NO (205.4/82.8)
##              MOTOCICLISTA_100 <= 9:
##              :...MOTOCICLISTA_200 > 21: NO (72.4/23.5)
##                  MOTOCICLISTA_200 <= 21:
##                  :...MOTOCICLISTA_200 > 19: SI (59.9/14.2)
##                      MOTOCICLISTA_200 <= 19:
##                      :...MOTOCICLISTA_100 > 5: SI (453.5/178.9)
##                          MOTOCICLISTA_100 <= 5:
##                          :...VEH_ATRAPADO_100 > 0: NO (175.1/70.6)
##                              VEH_ATRAPADO_100 <= 0:
##                              :...ATROPELLADO_100 > 24: NO (326.1/128.1
## )
##                                  ATROPELLADO_100 <= 24:
##                                  :...hospital_300 > 0: SI (366.9/139.5
## )
##                                      hospital_300 <= 0:
##                                      :...school > 0: SI (36.7/10.6)
##                                          school <= 0:
##                                          :...ACC_S_LESION_100 <= 24: N
## O (384.7/158.7)
##                                              ACC_S_LESION_100 > 24: SI
## (2252.8/1061.3)
##
## SubTree [S4]
##
## VOLCADURA_200 > 41: SI (35.5/8.1)
## VOLCADURA_200 <= 41:
## :...bar_300 > 0: SI (321.3/148.2)
##     bar_300 <= 0:
##     :...FERROVIARIO_200 > 0: SI (82.7/34.5)
##         FERROVIARIO_200 <= 0:
##         :...VEH_DESBARRANCADO_200 > 0: SI (260.8/118.9)
##             VEH_DESBARRANCADO_200 <= 0:
##             :...PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (450.3/213
## .4)
##                 PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##                 :...MOTOCICLISTA_200 <= 5: NO (5186.4/2277.4)
##                     MOTOCICLISTA_200 > 5:
##                     :...hospital_300 > 2: SI (43.9/12.6)
##                         hospital_300 <= 2:
##                         :...ACC_C_LESION_100 <= 3: SI (98.3/31)
```

```
##                                  ACC_C_LESION_100 > 3:
##                                  :...MOTOCICLISTA_200 > 19: NO (157.4/
51.3)
##                                      MOTOCICLISTA_200 <= 19:
##                                      :...VEH_ATRAPADO_100 > 0: NO (279
.6/109.3)
##                                          VEH_ATRAPADO_100 <= 0:
##                                          :...crossing_300 <= 0: NO (26
16.6/1234.4)
##                                              crossing_300 > 0: SI (378
/170)
##
## SubTree [S5]
##
## ACC_S_LESION_100 > 16: SI (490.9/200.4)
## ACC_S_LESION_100 <= 16:
## :...ATROPELLADO_100 > 1: SI (5524/2699.1)
##     ATROPELLADO_100 <= 1:
##     :...school_300 > 2: SI (186.3/76.6)
##         school_300 <= 2:
##         :...VEH_ATRAPADO_100 > 0: SI (180.4/77)
##             VEH_ATRAPADO_100 <= 0:
##             :...MOTOCICLISTA_100 > 1: SI (236.4/101.9)
##                 MOTOCICLISTA_100 <= 1:
##                 :...PER_ATRAPADO_DESBARRANCADO_100 <= 0: NO (9319
/4384.8)
##                     PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (514.5
/242.8)
##
## SubTree [S6]
##
## interseccion > 2: SI (12955.5/4691.4)
## interseccion <= 2:
## :...ACC_C_LESION_100 > 148: NO (82.7/22.6)
##     ACC_C_LESION_100 <= 148:
##     :...ATROPELLADO_200 > 125: SI (85.9/5.8)
##         ATROPELLADO_200 <= 125:
##         :...crossing > 0: NO (39.5/14.4)
##             crossing <= 0:
##             :...ACC_S_LESION_200 > 528: SI (82/19.9)
##                 ACC_S_LESION_200 <= 528:
##                 :...ACC_S_LESION_100 > 213: NO (316.8/136.2)
```

```
##                                ACC_S_LESION_100 <= 213:
##                                :...ACC_S_LESION_100 > 176: SI (138.9/41)
##                                    ACC_S_LESION_100 <= 176:
##                                    :...VEH_ATRAPADO_200 > 2: SI (161.3/57.6)
##                                        VEH_ATRAPADO_200 <= 2:
##                                        :...ACC_PRENSADO_100 > 2: NO (26.1/7.
3)
##                                            ACC_PRENSADO_100 <= 2: [S7]
##
## SubTree [S7]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 2: SI (273.2/103.4)
## PER_ATRAPADO_DESBARRANCADO_100 <= 2:
## :...ACC_C_LESION_200 > 137: SI (218.8/74.8)
##     ACC_C_LESION_200 <= 137:
##     :...VEH_ATRAPADO_200 > 1: NO (335.7/155.9)
##         VEH_ATRAPADO_200 <= 1:
##         :...MOTOCICLISTA_100 > 12: NO (85/31)
##             MOTOCICLISTA_100 <= 12:
##             :...ATROPELLADO_100 > 57: SI (25.3/3.1)
##                 ATROPELLADO_100 <= 57:
##                 :...restaurant_300 > 2: SI (1534.9/634.9)
##                     restaurant_300 <= 2:
##                     :...traffic_signals_300 > 20: SI (31.6/5.7)
##                         traffic_signals_300 <= 20:
##                         :...traffic_signals_300 > 8: NO (476.6/22
2.8)
##                             traffic_signals_300 <= 8:
##                             :...ATROPELLADO_100 > 41: NO (109/38.
3)
##                                 ATROPELLADO_100 <= 41:
##                                 :...ATROPELLADO_100 > 39: SI (26/
3.1)
##                                     ATROPELLADO_100 <= 39:
##                                     :...ACC_C_LESION_100 > 53: SI
(173.1/52.7)
##                                         ACC_C_LESION_100 <= 53:
##                                         :...VOLCADURA_100 > 2: NO
(1780.7/867.8)
##                                             VOLCADURA_100 <= 2:
##                                             :...MOTOCICLISTA_200
> 20: SI (27.9/4.1)
```

```
##                                                  MOTOCICLISTA_200
<= 20: [S8]
##
## SubTree [S8]
##
## ACC_C_LESION_100 > 48: NO (57.6/19.1)
## ACC_C_LESION_100 <= 48:
## :...ACC_C_LESION_100 > 35: SI (208/69.6)
##     ACC_C_LESION_100 <= 35:
##     :...VEH_DESBARRANCADO_100 > 0: SI (166.5/64.8)
##         VEH_DESBARRANCADO_100 <= 0:
##         :...restaurant_300 > 0: SI (1541.8/676.2)
##             restaurant_300 <= 0:
##             :...school_300 > 4: SI (89.7/28.6)
##                 school_300 <= 4:
##                 :...OTROS_100 > 1: NO (98.7/43.7)
##                     OTROS_100 <= 1:
##                     :...hotel_300 > 0: NO (260.8/119.2)
##                         hotel_300 <= 0:
##                         :...OTROS_100 > 0: SI (1143.8/498.5)
##                             OTROS_100 <= 0:
##                             :...VOLCADURA_100 <= 0:
##                                 :...MOTOCICLISTA_100 > 4: SI (142
.4/45.8)
##                                 :   MOTOCICLISTA_100 <= 4:
##                                 :   :...ACC_FATAL_100 > 0: NO (26
3.1/109.2)
##                                 :       ACC_FATAL_100 <= 0:
##                                 :       :...ACC_C_LESION_200 > 16
:
##                                 :           :...ATROPELLADO_100 <
= 28: SI (4210.7/1843.5)
##                                 :           :   ATROPELLADO_100 >
28: NO (52.5/17.5)
##                                 :           ACC_C_LESION_200 <= 1
6:
##                                 :           :...MOTOCICLISTA_200
> 6: NO (56.1/15.2)
##                                 :               MOTOCICLISTA_200
<= 6: [S9]
##                                 VOLCADURA_100 > 0:
##                                 :...MOTOCICLISTA_100 > 3: NO (393
```

```
.1/181)
##                                      MOTOCICLISTA_100 <= 3:
##                                      :...rtp_300 > 16: SI (71.2/16
.3)
##                                          rtp_300 <= 16: [S10]
##
## SubTree [S9]
##
## VEH_ATRAPADO_100 <= 0: SI (5472/2705.8)
## VEH_ATRAPADO_100 > 0: NO (156.6/64.7)
##
## SubTree [S10]
##
## ATROPELLADO_FATAL_100 > 1: NO (32.8/10.5)
## ATROPELLADO_FATAL_100 <= 1:
## :...ACC_S_LESION_200 > 257: SI (44/7.4)
##     ACC_S_LESION_200 <= 257:
##     :...school_300 <= 0: SI (2590.5/1159.4)
##         school_300 > 0: NO (247.6/114.5)
##
## -----  Trial 24:  -----
##
## Decision tree:
##
## ACC_S_LESION_100 <= 0: NO (4764.3/29.5)
## ACC_S_LESION_100 > 0:
## :...cruce_peligroso > 0: SI (97)
##     cruce_peligroso <= 0:
##     :...traffic_signals > 0: SI (108.6)
##         traffic_signals <= 0:
##         :...interseccion <= 0:
##             :...ACC_S_LESION_100 <= 18: NO (9117.4/1543.9)
##             :   ACC_S_LESION_100 > 18:
##             :   :...nightclub_300 > 4: SI (28.1/6.5)
##             :       nightclub_300 <= 4:
##             :       :...attraction > 0: SI (31.8/9.6)
##             :           attraction <= 0:
##             :           :...ACC_C_LESION_200 <= 4: NO (94.2/20.6)
##             :               ACC_C_LESION_200 > 4:
##             :               :...traffic_signals_300 > 30: SI (63.
9/20.7)
##             :                   traffic_signals_300 <= 30:
```

```
##             :                          :...metrobus > 0: SI (109/44.2)
##             :                              metrobus <= 0:
##             :                              :...traffic_signals_300 > 24:
NO (83.2/16.7)
##             :                              traffic_signals_300 <= 24
:
##             :                                  :...trolebus > 0: SI (158
.3/67.2)
##             :                                  trolebus <= 0: [S1]
##          interseccion > 0:
##          :...restaurant > 0: SI (187.5/2.3)
##             restaurant <= 0:
##             :...metro > 0: SI (33.4)
##                metro <= 0:
##                :...bank > 0: SI (63.4/3.2)
##                   bank <= 0:
##                   :...rtp > 0: SI (920.2/96.8)
##                      rtp <= 0:
##                      :...supermarket > 0: SI (55.7/3.2)
##                         supermarket <= 0:
##                         :...school > 0: SI (104/15.7)
##                            school <= 0:
##                            :...bar_300 > 0: SI (935.4/20
2.5)
##                               bar_300 <= 0:
##                               :...ATROPELLADO_100 > 10:
SI (7665.2/2358.4)
##                                  ATROPELLADO_100 <= 10
:
##                                  :...restaurant_300 >
14: SI (106.3/18.5)
##                                     restaurant_300 <=
14:
##                                     :...ACC_S_LESION_
100 > 17: [S2]
##                                        ACC_S_LESION_
100 <= 17: [S3]
##
## SubTree [S1]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 4: SI (629/292.9)
## PER_ATRAPADO_DESBARRANCADO_100 <= 4:
```

```
## :...ACC_S_LESION_100 <= 27:
##      :...traffic_signals_300 > 16: NO (26.6)
##      :   traffic_signals_300 <= 16:
##      :   :...ACC_S_LESION_200 > 394: SI (38.3/10)
##      :       ACC_S_LESION_200 <= 394:
##      :       :...ATROPELLADO_FATAL_100 > 0: SI (405.2/189)
##      :           ATROPELLADO_FATAL_100 <= 0:
##      :           :...VEH_DESBARRANCADO_100 > 0: SI (33.6/13.9)
##      :               VEH_DESBARRANCADO_100 <= 0:
##      :               :...PER_ATRAPADO_DESBARRANCADO_200 > 3: SI (1
42.6/64.1)
##      :                   PER_ATRAPADO_DESBARRANCADO_200 <= 3:
##      :                   :...VEH_ATRAPADO_200 > 1: NO (60.3/10.5)
##      :                       VEH_ATRAPADO_200 <= 1:
##      :                       :...hospital_300 <= 0: NO (2573.3/932
.2)
##      :                           hospital_300 > 0: SI (197/89.7)
##      ACC_S_LESION_100 > 27:
##      :...ACC_C_LESION_200 <= 9: SI (302.6/124.9)
##          ACC_C_LESION_200 > 9:
##          :...MOTOCICLISTA_100 > 14: SI (328.3/144.5)
##              MOTOCICLISTA_100 <= 14:
##              :...ACC_FATAL_100 > 3: NO (26.1/4.4)
##                  ACC_FATAL_100 <= 3:
##                  :...ACC_C_LESION_100 > 135: SI (40.3/11.5)
##                      ACC_C_LESION_100 <= 135:
##                      :...cinema > 0: SI (38.1/15.3)
##                          cinema <= 0:
##                          :...metro_300 > 0: NO (2979.8/1252.8)
##                              metro_300 <= 0:
##                              :...hotel_300 > 4: SI (211.5/91.7)
##                                  hotel_300 <= 4:
##                                  :...ACC_FATAL_100 > 1: NO (272.7/
111.4)
##                                      ACC_FATAL_100 <= 1:
##                                      :...ACC_S_LESION_100 <= 68:
##                                          :...ACC_C_LESION_100 > 38
: NO (261.6/88.5)
##                                          :   ACC_C_LESION_100 <= 3
8:
##                                          :   :...restaurant_300 >
0: NO (2369.5/970.1)
```

```
##                                       :        restaurant_300 <=
0: [S4]
##                                   ACC_S_LESION_100 > 68:
##                                   :...restaurant_300 > 66:
SI (31.4/5)
##                                      restaurant_300 <= 66:
##                                      :...hospital_300 > 4:
NO (35.9/8.9)
##                                         hospital_300 <= 4
:
##                                         :...bar_300 > 2:
SI (150.6/57.1)
##                                            bar_300 <= 2:
[S5]
##
## SubTree [S2]
##
## interseccion > 2: SI (2491.3/382.2)
## interseccion <= 2:
## :...ACC_C_LESION_100 > 50: SI (53.3/4.8)
##     ACC_C_LESION_100 <= 50:
##     :...hotel_300 > 0: SI (253.3/72.8)
##         hotel_300 <= 0:
##         :...OTROS_100 > 1: SI (108.3/34.7)
##             OTROS_100 <= 1:
##             :...ACC_C_LESION_200 > 38:
##                 :...FERROVIARIO_200 > 0: NO (25.7/8)
##                 :   FERROVIARIO_200 <= 0:
##                 :   :...OTROS_200 <= 2: SI (2126.1/870.5)
##                 :       OTROS_200 > 2: NO (111.4/42.3)
##                 ACC_C_LESION_200 <= 38:
##                 :...ACC_PRENSADO_200 > 1: SI (35.1/6.7)
##                     ACC_PRENSADO_200 <= 1:
##                     :...school_300 > 4: SI (43.7/9.7)
##                         school_300 <= 4:
##                         :...ACC_S_LESION_100 > 60: SI (177.7/64.1
)
##                             ACC_S_LESION_100 <= 60:
##                             :...ACC_S_LESION_100 > 57: NO (63.8/1
4.4)
##                                 ACC_S_LESION_100 <= 57:
##                                 :...ACC_FATAL_200 > 1: NO (66.4/2
```

```
1.7)
##                                                              ACC_FATAL_200 <= 1:
##                                                              :...VEH_ATRAPADO_100 > 1: SI
(25.3/5.7)
##                                                              VEH_ATRAPADO_100 <= 1:
##                                                              :...ATROPELLADO_200 > 34:
NO (128.1/42.1)
##                                                              ATROPELLADO_200 <= 34
:
##                                                              :...ACC_FATAL_100 > 0
: SI (193/78)
##                                                              ACC_FATAL_100 <=
0: [S6]
##
## SubTree [S3]
##
## VEH_DESBARRANCADO_200 > 1: NO (105.3/37.9)
## VEH_DESBARRANCADO_200 <= 1:
## :...interseccion <= 2:
##      :...VEH_ATRAPADO_200 > 2: SI (47.8/13.8)
##      :   VEH_ATRAPADO_200 <= 2:
##      :   :...ACC_S_LESION_100 <= 1: NO (1865.4/722)
##      :        ACC_S_LESION_100 > 1:
##      :        :...VOLCADURA_100 > 2: SI (471.5/199.6)
##      :            VOLCADURA_100 <= 2:
##      :            :...ATROPELLADO_100 > 1:
##      :                :...VEH_ATRAPADO_100 > 0: SI (278.9/125.3)
##      :                :   VEH_ATRAPADO_100 <= 0:
##      :                :   :...rtp_300 > 14: NO (325.3/121.3)
##      :                :       rtp_300 <= 14:
##      :                :       :...ACC_C_LESION_200 <= 11:
##      :                :           :...ATROPELLADO_200 <= 27: NO (46
95.1/2052)
##      :                :           :   ATROPELLADO_200 > 27: SI (48.
3/13)
##      :                :           ACC_C_LESION_200 > 11:
##      :                :           :...school_300 > 4: NO (39.3/10)
##      :                :               school_300 <= 4:
##      :                :               :...ACC_S_LESION_100 > 14: SI
(827.2/374)
##      :                :                   ACC_S_LESION_100 <= 14: [
S7]
```

```
##         :                       ATROPELLADO_100 <= 1:
##         :                       :...ACC_PRENSADO_100 > 0: NO (27.3/5)
##         :                           ACC_PRENSADO_100 <= 0:
##         :                           :...school_300 > 4: NO (34.1/9.5)
##         :                               school_300 <= 4:
##         :                               :...PER_ATRAPADO_DESBARRANCADO_100 >
0: NO (538.8/239.3)
##         :                                   PER_ATRAPADO_DESBARRANCADO_100 <=
0:
##         :                                   :...ACC_C_LESION_100 <= 1:
##         :                                       :...MOTOCICLISTA_100 > 1: NO
(116/48.8)
##         :                                       :   MOTOCICLISTA_100 <= 1:
##         :                                       :   :...VOLCADURA_200 > 15: N
O (34.4/7.8)
##         :                                       :       VOLCADURA_200 <= 15:
[S8]
##         :                                       ACC_C_LESION_100 > 1:
##         :                                       :...hotel_300 > 0: SI (58.8/1
9.7)
##         :                                           hotel_300 <= 0:
##         :                                           :...ACC_FATAL_100 > 0: SI
(69.5/26.9)
##         :                                               ACC_FATAL_100 <= 0: [
S9]
##     interseccion > 2:
##     :...ACC_S_LESION_100 > 10:
##         :...ACC_PRENSADO_200 > 0: SI (107.8/23)
##         :   ACC_PRENSADO_200 <= 0:
##         :   :...ATROPELLADO_200 > 31: SI (202/48.5)
##         :       ATROPELLADO_200 <= 31:
##         :       :...OTROS_100 > 0: SI (221.7/66.8)
##         :           OTROS_100 <= 0:
##         :           :...VOLCADURA_100 > 2: NO (77.6/29.2)
##         :               VOLCADURA_100 <= 2:
##         :               :...MOTOCICLISTA_100 > 2: NO (200.4/87.1)
##         :                   MOTOCICLISTA_100 <= 2:
##         :                   :...VEH_ATRAPADO_200 > 1: NO (50/19.4
)
##         :                       VEH_ATRAPADO_200 <= 1:
##         :                       :...ACC_C_LESION_100 <= 0: NO (26
7.9/125.6)
```

```
##      :                                  ACC_C_LESION_100 > 0: SI (240
6.1/962.2)
##          ACC_S_LESION_100 <= 10:
##          :...PER_ATRAPADO_DESBARRANCADO_100 > 0: NO (611.8/264.3)
##              PER_ATRAPADO_DESBARRANCADO_100 <= 0:
##              :...ACC_PRENSADO_100 > 0: SI (32.7/9.4)
##                  ACC_PRENSADO_100 <= 0:
##                  :...PER_ATRAPADO_DESBARRANCADO_200 > 1: SI (225.4
/94.7)
##                      PER_ATRAPADO_DESBARRANCADO_200 <= 1:
##                      :...ACC_S_LESION_200 > 287: SI (37.4/5.6)
##                          ACC_S_LESION_200 <= 287:
##                          :...MOTOCICLISTA_200 > 14: NO (37.1/9.4)
##                              MOTOCICLISTA_200 <= 14:
##                              :...hospital_300 > 0: SI (155.3/63.9)
##                                  hospital_300 <= 0:
##                                  :...ATROPELLADO_100 > 1:
##                                      :...ACC_S_LESION_200 > 182: N
O (45.6/8.6)
##                                      :   ACC_S_LESION_200 <= 182:
##                                      :   :...ACC_S_LESION_200 > 13
9: SI (26.5/2.6)
##                                      :       ACC_S_LESION_200 <= 1
39:
##                                      :       :...MOTOCICLISTA_200
> 8: NO (78.2/21.5)
##                                      :           MOTOCICLISTA_200
<= 8: [S10]
##                                      ATROPELLADO_100 <= 1:
##                                      :...ATROPELLADO_FATAL_200 > 1
: NO (95.4/38.8)
##                                          ATROPELLADO_FATAL_200 <=
1:
##                                          :...OTROS_200 > 1: NO (12
1.8/50.8)
##                                              OTROS_200 <= 1:
##                                              :...VOLCADURA_200 > 1
1: SI (34.9/4.5)
##                                                  VOLCADURA_200 <=
11: [S11]
##
## SubTree [S4]
```

```
##
## ATROPELLADO_FATAL_200 > 1: SI (481.1/218.5)
## ATROPELLADO_FATAL_200 <= 1:
## :...MOTOCICLISTA_200 <= 1: SI (567.1/270.6)
##     MOTOCICLISTA_200 > 1: NO (3515.7/1544.9)
##
## SubTree [S5]
##
## ATROPELLADO_200 <= 7: SI (75.9/24.4)
## ATROPELLADO_200 > 7:
## :...MOTOCICLISTA_200 > 14: NO (595.4/237.7)
##     MOTOCICLISTA_200 <= 14:
##     :...restaurant_300 > 28: SI (27.4/5.4)
##         restaurant_300 <= 28:
##         :...restaurant_300 > 12: NO (143.3/51.9)
##             restaurant_300 <= 12:
##             :...VOLCADURA_200 <= 4: NO (1832.3/858.4)
##                 VOLCADURA_200 > 4: SI (1379.1/632.4)
##
## SubTree [S6]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 1: SI (309.8/130.6)
## PER_ATRAPADO_DESBARRANCADO_200 <= 1:
## :...VOLCADURA_100 > 2: SI (299.6/127)
##     VOLCADURA_100 <= 2:
##     :...MOTOCICLISTA_100 <= 5: NO (3816.1/1781.8)
##         MOTOCICLISTA_100 > 5: SI (35.8/8.5)
##
## SubTree [S7]
##
## ATROPELLADO_FATAL_200 > 2: NO (45/11.5)
## ATROPELLADO_FATAL_200 <= 2:
## :...ACC_FATAL_100 > 0: SI (73.2/24.8)
##     ACC_FATAL_100 <= 0:
##     :...crossing_300 > 0: NO (138.9/47.2)
##         crossing_300 <= 0:
##         :...OTROS_200 > 1: SI (135.2/49)
##             OTROS_200 <= 1:
##             :...ACC_C_LESION_200 > 91: SI (27.1/4.4)
##                 ACC_C_LESION_200 <= 91:
##                 :...rtp_300 <= 0: SI (1070.9/529.4)
##                     rtp_300 > 0: NO (1435.8/636.1)
```

```
##
## SubTree [S8]
##
## traffic_signals_300 > 6: NO (132.2/56.9)
## traffic_signals_300 <= 6:
## :...hotel_300 > 0: NO (25.6/7.8)
##     hotel_300 <= 0:
##     :...hospital_300 > 0: SI (90.2/31.2)
##         hospital_300 <= 0:
##         :...OTROS_200 > 0: NO (470.5/222.2)
##             OTROS_200 <= 0:
##             :...restaurant_300 <= 4: SI (3216.8/1406.6)
##                 restaurant_300 > 4: NO (35/9.2)
##
## SubTree [S9]
##
## ATROPELLADO_FATAL_100 > 0: SI (59.3/20.3)
## ATROPELLADO_FATAL_100 <= 0:
## :...rtp_300 > 10: SI (171.6/68.5)
##     rtp_300 <= 10:
##     :...VEH_ATRAPADO_200 > 1: SI (31.7/9)
##         VEH_ATRAPADO_200 <= 1:
##         :...VEH_ATRAPADO_100 > 0: SI (44.3/15.7)
##             VEH_ATRAPADO_100 <= 0:
##             :...school_300 > 0: NO (278.2/107.5)
##                 school_300 <= 0:
##                 :...ATROPELLADO_200 <= 33: NO (2634.9/1217.9)
##                     ATROPELLADO_200 > 33: SI (50.9/12.8)
##
## SubTree [S10]
##
## ACC_FATAL_100 > 0: NO (137.6/53.2)
## ACC_FATAL_100 <= 0:
## :...ATROPELLADO_100 <= 4: NO (3382.4/1527.6)
##     ATROPELLADO_100 > 4: SI (1032.2/472.1)
##
## SubTree [S11]
##
## MOTOCICLISTA_200 > 8: SI (49.7/12.4)
## MOTOCICLISTA_200 <= 8:
## :...restaurant_300 > 2: SI (162.2/57.9)
##     restaurant_300 <= 2:
```

```
##        :...crossing_300 > 0: SI (145.3/46.3)
##           crossing_300 <= 0:
##           :...ACC_PRENSADO_200 > 0: SI (89.1/30.7)
##               ACC_PRENSADO_200 <= 0:
##               :...ACC_C_LESION_100 > 1: NO (1647/781.4)
##                   ACC_C_LESION_100 <= 1:
##                   :...restaurant_300 <= 0: SI (3891/1767.3)
##                       restaurant_300 > 0: NO (126.4/57.6)
##
## -----  Trial 25:  -----
##
## Decision tree:
##
## ACC_S_LESION_100 <= 0: NO (4351.7/3.9)
## ACC_S_LESION_100 > 0:
## :...cruce_peligroso > 0: SI (89.1)
##     cruce_peligroso <= 0:
##     :...traffic_signals > 0: SI (99.8)
##         traffic_signals <= 0:
##         :...interseccion <= 0:
##             :...ACC_S_LESION_100 <= 24:
##             :     :...rtp > 0: SI (456/204.6)
##             :     :   rtp <= 0:
##             :     :   :...bank <= 0: NO (9543.8/1252.7)
##             :     :       bank > 0: SI (27.2/9.8)
##             :     ACC_S_LESION_100 > 24:
##             :     :...cetram > 0: SI (46.2/15.9)
##             :         cetram <= 0:
##             :         :...rtp > 0: SI (902.5/379.5)
##             :             rtp <= 0:
##             :             :...ACC_C_LESION_200 <= 30:
##             :                 :...VOLCADURA_200 <= 13: NO (3341.1/9
## 13.5)
##             :                 :   VOLCADURA_200 > 13: SI (46.8/10.4
## )
##             :                 ACC_C_LESION_200 > 30:
##             :                 :...supermarket > 0: SI (105.3/41.8)
##             :                     supermarket <= 0:
##             :                     :...ACC_S_LESION_100 <= 33: NO (1
## 255.3/370.9)
##             :                         ACC_S_LESION_100 > 33:
##             :                         :...school > 0: SI (124.6/54.
```

```
4)
##                  :                        school <= 0:
##                  :                        :...restaurant > 0: SI (4
64.5/215.4)
##                  :                        restaurant <= 0:
##                  :                        :...theatre > 0: NO (
25.2/4.3)
##                  :                        theatre <= 0:
##                  :                        :...bar_300 > 6:
SI (299/129)
##                  :                        bar_300 <= 6:
[S1]
##                 interseccion > 0:
##                 :...restaurant > 0: SI (173.2/3.1)
##                     restaurant <= 0:
##                     :...rtp > 0: SI (823.3/51.3)
##                         rtp <= 0:
##                         :...university > 0: NO (26.8/4.7)
##                             university <= 0:
##                             :...trolebus > 0: SI (76.9/6.3)
##                                 trolebus <= 0:
##                                 :...ACC_S_LESION_100 > 18:
##                                     :...interseccion > 2: SI (3352/16
3.1)
##                                     :   interseccion <= 2:
##                                     :   :...bar_300 > 0: SI (429.2/4.
6)
##                                     :       bar_300 <= 0:
##                                     :       :...hotel_300 > 0: SI (51
7.3/67.8)
##                                     :           hotel_300 <= 0:
##                                     :           :...ACC_PRENSADO_200
> 2: NO (65.8/25.9)
##                                     :               ACC_PRENSADO_200
<= 2:
##                                     :               :...ACC_S_LESION_
200 > 53: [S2]
##                                     :                   ACC_S_LESION_
200 <= 53: [S3]
##                                 ACC_S_LESION_100 <= 18:
##                                 :...bar_300 > 6: NO (33.9/7.6)
##                                     bar_300 <= 6:
```

```
##                                          :...turning_circle > 0: NO (2
8.2/7.7)
##                                          turning_circle <= 0: [S4]
##
## SubTree [S1]
##
## VEH_ATRAPADO_100 > 3: NO (25.7/3.5)
## VEH_ATRAPADO_100 <= 3:
## :...VEH_ATRAPADO_100 > 1: SI (210.9/99.6)
##      VEH_ATRAPADO_100 <= 1:
##      :...ACC_FATAL_100 > 1: SI (459.4/224.6)
##          ACC_FATAL_100 <= 1:
##          :...crossing_300 <= 14: NO (9302.2/3749.7)
##              crossing_300 > 14: SI (109.7/43.7)
##
## SubTree [S2]
##
## ACC_C_LESION_100 <= 134: SI (8306.6/2365.1)
## ACC_C_LESION_100 > 134: NO (89/37.2)
##
## SubTree [S3]
##
## VOLCADURA_200 > 3: NO (271.4/98.4)
## VOLCADURA_200 <= 3:
## :...PER_ATRAPADO_DESBARRANCADO_100 > 1: NO (30.1/9.8)
##      PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##      :...rtp_300 > 20: NO (33/8)
##          rtp_300 <= 20:
##          :...ACC_S_LESION_100 <= 37: SI (2211.6/849.9)
##              ACC_S_LESION_100 > 37: NO (130.7/53)
##
## SubTree [S4]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 2: SI (115.6/31)
## PER_ATRAPADO_DESBARRANCADO_100 <= 2:
## :...ACC_S_LESION_100 > 6:
##      :...metro_300 > 2: SI (36.5/3.2)
##      :   metro_300 <= 2:
##      :   :...interseccion > 2:
##      :       :...hospital_300 > 0: SI (98.2/7.6)
##      :       :   hospital_300 <= 0:
##      :       :   :...VOLCADURA_200 <= 15: SI (7397.4/2432.6)
```

```
##      :             :                 VOLCADURA_200 > 15: NO (78.6/28.7)
##      :            interseccion <= 2:
##      :             :...MOTOCICLISTA_200 > 19: SI (29.4/4.5)
##      :                 MOTOCICLISTA_200 <= 19:
##      :                 :...ATROPELLADO_100 > 19: SI (45.5/9.2)
##      :                     ATROPELLADO_100 <= 19:
##      :                     :...restaurant_300 > 10: SI (70.6/12.8)
##      :                         restaurant_300 <= 10:
##      :                         :...ATROPELLADO_FATAL_100 > 1: NO (37.4/1
1.1)
##      :                             ATROPELLADO_FATAL_100 <= 1:
##      :                             :...ATROPELLADO_FATAL_200 > 2: NO (10
6.8/39.2)
##      :                                 ATROPELLADO_FATAL_200 <= 2:
##      :                                 :...ATROPELLADO_100 > 11: NO (319
.4/127.3)
##      :                                     ATROPELLADO_100 <= 11:
##      :                                     :...MOTOCICLISTA_200 > 13: NO
(77.2/26.3)
##      :                                         MOTOCICLISTA_200 <= 13: [
S5]
##      ACC_S_LESION_100 <= 6:
##      :...bar_300 > 0: NO (135.6/34.8)
##          bar_300 <= 0:
##          :...ACC_PRENSADO_200 > 1: SI (83.4/31)
##              ACC_PRENSADO_200 <= 1:
##              :...OTROS_200 > 1: SI (431.4/173.8)
##                  OTROS_200 <= 1:
##                  :...ACC_C_LESION_100 <= 0:
##                      :...ACC_FATAL_100 > 0: SI (86.6/36.3)
##                      :   ACC_FATAL_100 <= 0:
##                      :   :...ATROPELLADO_100 > 1: SI (1715.7/825.6
)
##                      :       ATROPELLADO_100 <= 1:
##                      :       :...VEH_ATRAPADO_200 > 1: NO (29.2/2.
9)
##                      :           VEH_ATRAPADO_200 <= 1: [S6]
##                      ACC_C_LESION_100 > 0:
##                      :...ATROPELLADO_100 > 8: SI (118.2/36.4)
##                          ATROPELLADO_100 <= 8:
##                          :...PER_ATRAPADO_DESBARRANCADO_200 > 2: N
O (136.7/51.3)
```

```
##                                         PER_ATRAPADO_DESBARRANCADO_200 <= 2:
##                                         :...ATROPELLADO_100 > 6: NO (264.3/10
6.7)
##                                            ATROPELLADO_100 <= 6:
##                                            :...restaurant_300 > 2: NO (246.3
/104.2)
##                                               restaurant_300 <= 2:
##                                               :...VOLCADURA_100 > 2: NO (26
5/112.3)
##                                                  VOLCADURA_100 <= 2:
##                                                  :...ACC_FATAL_200 > 1: SI
(106/35.1)
##                                                     ACC_FATAL_200 <= 1:
##                                                     :...VOLCADURA_100 > 1
: SI (329.1/131.1)
##                                                        VOLCADURA_100 <=
1: [S7]
##
## SubTree [S5]
##
## VEH_DESBARRANCADO_200 > 0: NO (328/146.4)
## VEH_DESBARRANCADO_200 <= 0:
## :...hospital_300 > 0: SI (271.1/103.2)
##     hospital_300 <= 0:
##     :...bar_300 > 0: SI (86.4/29.4)
##         bar_300 <= 0:
##         :...ACC_S_LESION_100 > 17: SI (555.5/210)
##             ACC_S_LESION_100 <= 17:
##             :...OTROS_200 > 1: SI (299.9/115.1)
##                 OTROS_200 <= 1:
##                 :...traffic_signals_300 > 4: NO (369.6/164.8)
##                     traffic_signals_300 <= 4:
##                     :...ATROPELLADO_100 <= 3:
##                         :...VOLCADURA_100 > 6: NO (41.1/8.3)
##                         :   VOLCADURA_100 <= 6:
##                         :   :...VOLCADURA_200 > 13: SI (30.3/5)
##                         :       VOLCADURA_200 <= 13:
##                         :       :...ACC_S_LESION_200 <= 229: SI (
5876.9/2607.6)
##                         :           ACC_S_LESION_200 > 229: NO (2
5.2/3.9)
##                         ATROPELLADO_100 > 3:
```

```
##                               :...restaurant_300 > 4: NO (38.2/5.7)
##                                  restaurant_300 <= 4:
##                                  :...traffic_signals_300 > 0: NO (117.
3/44.5)
##                                     traffic_signals_300 <= 0: [S8]
##
## SubTree [S6]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (321.8/145.7)
## PER_ATRAPADO_DESBARRANCADO_100 <= 0:
## :...ACC_S_LESION_200 > 124: SI (84.9/26.7)
##     ACC_S_LESION_200 <= 124:
##     :...MOTOCICLISTA_100 > 0: SI (786/379.5)
##         MOTOCICLISTA_100 <= 0:
##         :...VEH_DESBARRANCADO_100 > 0: SI (60.9/26.4)
##             VEH_DESBARRANCADO_100 <= 0:
##             :...ACC_S_LESION_100 <= 1: NO (1356.6/406.3)
##                 ACC_S_LESION_100 > 1:
##                 :...VOLCADURA_200 > 10: NO (38.3/6.5)
##                     VOLCADURA_200 <= 10:
##                     :...traffic_signals_300 > 2: SI (170.3/77.3)
##                         traffic_signals_300 <= 2:
##                         :...school_300 > 0: NO (152/39.6)
##                             school_300 <= 0:
##                             :...VOLCADURA_100 > 1: SI (58.2/23.5)
##                                 VOLCADURA_100 <= 1:
##                                 :...VOLCADURA_200 > 3: SI (104.4/
44.4)
##                                     VOLCADURA_200 <= 3:
##                                     :...VEH_ATRAPADO_200 > 0: NO
(108.2/31)
##                                         VEH_ATRAPADO_200 <= 0:
##                                         :...MOTOCICLISTA_200 > 3:
SI (139.8/61.1)
##                                             MOTOCICLISTA_200 <= 3
: [S9]
##
## SubTree [S7]
##
## ATROPELLADO_FATAL_100 > 0: NO (223.2/97)
## ATROPELLADO_FATAL_100 <= 0:
## :...ACC_S_LESION_100 > 4:
```

```
##        :...rtp_300 <= 12: SI (3339.8/1449.2)
##        :   rtp_300 > 12: NO (174.7/76)
##      ACC_S_LESION_100 <= 4:
##      :...interseccion > 8: NO (39.6/10.9)
##          interseccion <= 8:
##          :...ACC_FATAL_100 > 0: NO (69.1/24.2)
##              ACC_FATAL_100 <= 0:
##              :...VOLCADURA_200 > 3: NO (296.5/121.6)
##                  VOLCADURA_200 <= 3:
##                  :...traffic_signals_300 > 12: SI (26/4.8)
##                      traffic_signals_300 <= 12:
##                      :...ACC_C_LESION_100 > 1:
##                          :...PER_ATRAPADO_DESBARRANCADO_100 > 1: N
O (26.2/5.4)
##                          :   PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##                          :   :...VEH_ATRAPADO_100 > 0: NO (71.4/24
.9)
##                          :       VEH_ATRAPADO_100 <= 0:
##                          :       :...ATROPELLADO_100 > 5: NO (74.1
/25.5)
##                          :           ATROPELLADO_100 <= 5:
##                          :           :...hospital_300 <= 0: SI (28
60.7/1268.5)
##                          :               hospital_300 > 0: NO (57.
2/21.3)
##                          ACC_C_LESION_100 <= 1:
##                          :...MOTOCICLISTA_200 > 6: NO (48.1/10.9)
##                              MOTOCICLISTA_200 <= 6:
##                              :...VEH_ATRAPADO_200 > 1: SI (37.4/12
.1)
##                                  VEH_ATRAPADO_200 <= 1:
##                                  :...ACC_PRENSADO_200 > 0: SI (49.
6/18.6)
##                                      ACC_PRENSADO_200 <= 0:
##                                      :...crossing_300 > 0: SI (137
.9/56.1)
##                                          crossing_300 <= 0:
##                                          :...MOTOCICLISTA_100 > 1:
SI (93.1/39.5)
##                                              MOTOCICLISTA_100 <= 1
:
##                                              :...school_300 > 2: N
```

```
O (46.4/13.3)
##                                                    school_300 <= 2:
[S10]
##
## SubTree [S8]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (189.2/75.9)
## PER_ATRAPADO_DESBARRANCADO_100 <= 0:
## :...MOTOCICLISTA_200 > 6: NO (257.8/107)
##     MOTOCICLISTA_200 <= 6:
##     :...restaurant_300 > 2: SI (33/8.9)
##         restaurant_300 <= 2:
##         :...ACC_S_LESION_100 <= 13: SI (1885.1/851.5)
##             ACC_S_LESION_100 > 13: NO (1034.8/487.5)
##
## SubTree [S9]
##
## PER_ATRAPADO_DESBARRANCADO_200 <= 1: NO (2522/997.7)
## PER_ATRAPADO_DESBARRANCADO_200 > 1: SI (40.8/15.4)
##
## SubTree [S10]
##
## ACC_S_LESION_200 > 48: SI (164/59.4)
## ACC_S_LESION_200 <= 48:
## :...interseccion > 6: NO (83.9/26.4)
##     interseccion <= 6:
##     :...ATROPELLADO_100 > 2: SI (350.8/153.6)
##         ATROPELLADO_100 <= 2:
##         :...ACC_S_LESION_200 > 31: NO (172/46.4)
##             ACC_S_LESION_200 <= 31:
##             :...ACC_S_LESION_200 <= 2: SI (295.9/128.1)
##                 ACC_S_LESION_200 > 2: NO (1993.6/890)
##
## -----  Trial 26:  -----
##
## Decision tree:
##
## cruce_peligroso > 0: SI (79.2)
## cruce_peligroso <= 0:
## :...traffic_signals > 0: SI (88.6)
##     traffic_signals <= 0:
##     :...interseccion <= 0:
```

```
##              :...ACC_S_LESION_100 <= 24:
##              :   :...hotel_300 > 2: SI (149.8/59)
##              :   :   hotel_300 <= 2:
##              :   :   :...ACC_C_LESION_200 <= 137: NO (11177.7/590.4)
##              :   :        ACC_C_LESION_200 > 137: SI (125.5/47.1)
##              :   ACC_S_LESION_100 > 24:
##              :   :...rtp > 2: SI (29.6/4)
##              :       rtp <= 2:
##              :       :...metrobus > 0: SI (119.5/32)
##              :           metrobus <= 0:
##              :           :...crossing > 0: SI (85.2/30.9)
##              :               crossing <= 0:
##              :               :...metro > 0: SI (129.5/48.7)
##              :                   metro <= 0:
##              :                   :...trolebus > 0: SI (183.8/72.1)
##              :                       trolebus <= 0:
##              :                       :...ACC_S_LESION_100 <= 56:
##              :                           :...nightclub_300 > 0: SI (18
5.8/75.7)
##              :                           :   nightclub_300 <= 0: [S1]
##              :                           ACC_S_LESION_100 > 56:
##              :                           :...ATROPELLADO_100 > 63: SI
(616/246.2)
##              :                               ATROPELLADO_100 <= 63: [S
2]
##          interseccion > 0:
##          :...ACC_S_LESION_100 > 18: SI (13768.6/2596.8)
##              ACC_S_LESION_100 <= 18:
##              :...rtp > 0: SI (286.1/51.2)
##                  rtp <= 0:
##                  :...school > 0: SI (55.1/13.8)
##                      school <= 0:
##                      :...ACC_S_LESION_100 > 9:
##                          :...restaurant_300 > 12: SI (55.1)
##                          :   restaurant_300 <= 12:
##                          :   :...bar_300 > 0: SI (77.3/3.2)
##                          :       bar_300 <= 0:
##                          :       :...interseccion > 2: SI (3723.9/
981.9)
##                          :               interseccion <= 2:
##                          :               :...metro_300 > 2: SI (25.5)
##                          :                   metro_300 <= 2:
```

```
##                            :                        :...MOTOCICLISTA_100 > 5:
## SI (43.1/8.2)
##                            :                           MOTOCICLISTA_100 <= 5
## :
##                            :                           :...crossing_300 > 8:
## SI (42.8/8.9)
##                            :                              crossing_300 <= 8
## : [S3]
##                        ACC_S_LESION_100 <= 9:
##                        :...restaurant_300 > 18: NO (47.9/4.7)
##                           restaurant_300 <= 18:
##                           :...VEH_ATRAPADO_200 > 2: SI (41.9/8.
## 8)
##                              VEH_ATRAPADO_200 <= 2: [S4]
##
## SubTree [S1]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 1: NO (1865.8/808.5)
## PER_ATRAPADO_DESBARRANCADO_200 <= 1:
## :...metro_300 <= 2: NO (4647.8/1055.8)
##     metro_300 > 2: SI (102.5/33.7)
##
## SubTree [S2]
##
## ATROPELLADO_FATAL_200 > 5: SI (136.3/46.4)
## ATROPELLADO_FATAL_200 <= 5:
## :...ACC_C_LESION_200 > 220: SI (104.5/35.6)
##     ACC_C_LESION_200 <= 220:
##     :...ACC_PRENSADO_200 > 1: NO (172.2/47.7)
##         ACC_PRENSADO_200 <= 1:
##         :...ACC_FATAL_100 > 1: NO (430.4/138.6)
##             ACC_FATAL_100 <= 1:
##             :...PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (1841.7/86
## 8.1)
##                 PER_ATRAPADO_DESBARRANCADO_100 <= 1:
##                 :...traffic_signals_300 > 16: NO (156.5/27.8)
##                     traffic_signals_300 <= 16:
##                     :...hospital_300 > 4: NO (58.2/11.3)
##                         hospital_300 <= 4:
##                         :...bank > 0: SI (81.5/31.6)
##                             bank <= 0:
##                             :...ACC_S_LESION_100 > 123: SI (1591.
```

```
6/754.7)
##                                              ACC_S_LESION_100 <= 123:
##                                              :...ATROPELLADO_FATAL_100 <= 2: N
O (3650.9/1392.2)
##                                              ATROPELLADO_FATAL_100 > 2: SI
(43.4/13.1)
##
## SubTree [S3]
##
## VOLCADURA_100 > 11: NO (58.6/18.5)
## VOLCADURA_100 <= 11:
## :...MOTOCICLISTA_200 > 15: SI (59.5/13.8)
##     MOTOCICLISTA_200 <= 15:
##     :...PER_ATRAPADO_DESBARRANCADO_200 > 2: SI (188.2/60.5)
##         PER_ATRAPADO_DESBARRANCADO_200 <= 2:
##         :...ATROPELLADO_200 > 9:
##             :...ATROPELLADO_FATAL_200 > 2: NO (74.1/28)
##             :   ATROPELLADO_FATAL_200 <= 2:
##             :   :...OTROS_200 <= 1: SI (4485.3/1866.3)
##             :       OTROS_200 > 1: NO (230.4/95.1)
##             ATROPELLADO_200 <= 9:
##             :...traffic_signals_300 > 4: SI (101.1/31.9)
##                 traffic_signals_300 <= 4:
##                 :...crossing_300 > 2: NO (97.3/29.4)
##                     crossing_300 <= 2:
##                     :...ACC_FATAL_200 > 1: NO (29/7.5)
##                         ACC_FATAL_200 <= 1:
##                         :...restaurant_300 > 0: SI (272.6/108.9)
##                             restaurant_300 <= 0:
##                             :...traffic_signals_300 > 2: NO (61.8
/16.7)
##                                 traffic_signals_300 <= 2:
##                                 :...ACC_PRENSADO_200 > 0: SI (84.
9/30.7)
##                                     ACC_PRENSADO_200 <= 0:
##                                     :...VOLCADURA_200 <= 2: NO (2
801.7/1245)
##                                         VOLCADURA_200 > 2: SI (29
9.8/120.9)
##
## SubTree [S4]
##
```

```
## PER_ATRAPADO_DESBARRANCADO_100 > 2: SI (43.2/11.9)
## PER_ATRAPADO_DESBARRANCADO_100 <= 2:
## :...ACC_S_LESION_100 <= 1: NO (4599/1245.5)
##     ACC_S_LESION_100 > 1:
##     :...ATROPELLADO_100 > 10: SI (157.7/40.3)
##         ATROPELLADO_100 <= 10:
##         :...ACC_C_LESION_200 > 85: SI (199.8/66.3)
##             ACC_C_LESION_200 <= 85:
##             :...ACC_S_LESION_200 > 255: NO (46.6/8.7)
##                 ACC_S_LESION_200 <= 255:
##                 :...interseccion <= 2:
##                     :...MOTOCICLISTA_200 > 8: SI (231.2/89.3)
##                     :   MOTOCICLISTA_200 <= 8:
##                     :   :...MOTOCICLISTA_100 > 3: NO (89.1/23)
##                     :       MOTOCICLISTA_100 <= 3:
##                     :       :...ACC_C_LESION_100 > 13: SI (47.6/1
1.3)
##                     :           ACC_C_LESION_100 <= 13:
##                     :           :...ACC_C_LESION_200 > 58: NO (10
9.6/27.8)
##                     :               ACC_C_LESION_200 <= 58:
##                     :               :...ACC_C_LESION_200 > 52: SI
(66.6/17.8)
##                     :                   ACC_C_LESION_200 <= 52:
##                     :                   :...hotel_300 > 0: SI (14
3.7/68.4)
##                     :                       hotel_300 <= 0:
##                     :                       :...hospital_300 > 0:
SI (316.1/150.5)
##                     :                           hospital_300 <= 0
:
##                     :                           :...rtp_300 > 4:
NO (3279.3/1267.6)
##                     :                               rtp_300 <= 4:
[S5]
##                     interseccion > 2:
##                     :...MOTOCICLISTA_100 > 2: SI (169.8/48.1)
##                         MOTOCICLISTA_100 <= 2:
##                         :...hospital_300 > 0: SI (140.1/44.8)
##                             hospital_300 <= 0:
##                             :...PER_ATRAPADO_DESBARRANCADO_200 >
3: SI (44.9/10.2)
```

```
##                                              PER_ATRAPADO_DESBARRANCADO_200 <=
3:
##                                              :...ATROPELLADO_FATAL_100 > 0: SI
(263/112)
##                                              ATROPELLADO_FATAL_100 <= 0:
##                                              :...ACC_C_LESION_100 > 6: SI
(283.5/98.1)
##                                              ACC_C_LESION_100 <= 6:
##                                              :...ATROPELLADO_100 > 5:
SI (554.3/238.9)
##                                              ATROPELLADO_100 <= 5:
##                                              :...rtp_300 > 34: NO
(35.2/7.5)
##                                              rtp_300 <= 34: [S
6]
##
## SubTree [S5]
##
## VOLCADURA_100 > 3: SI (110.3/35.8)
## VOLCADURA_100 <= 3:
## :...VOLCADURA_200 > 6: SI (145.5/64.2)
##      VOLCADURA_200 <= 6:
##      :...PER_ATRAPADO_DESBARRANCADO_200 > 2: NO (142.1/46.8)
##          PER_ATRAPADO_DESBARRANCADO_200 <= 2:
##          :...ATROPELLADO_FATAL_200 > 1: SI (84.9/35.7)
##              ATROPELLADO_FATAL_200 <= 1:
##              :...ATROPELLADO_FATAL_100 > 0: SI (178.4/82.9)
##                  ATROPELLADO_FATAL_100 <= 0:
##                  :...restaurant_300 > 2: SI (280.3/133.3)
##                      restaurant_300 <= 2:
##                      :...ATROPELLADO_100 > 5: SI (508/246.5)
##                          ATROPELLADO_100 <= 5:
##                          :...MOTOCICLISTA_200 > 1: NO (3095.5/1198
.1)
##                              MOTOCICLISTA_200 <= 1:
##                              :...ATROPELLADO_200 > 18: SI (88.6/28
)
##                                  ATROPELLADO_200 <= 18:
##                                  :...VOLCADURA_100 > 0: NO (884.2/
332.1)
##                                      VOLCADURA_100 <= 0:
##                                      :...ATROPELLADO_100 > 3: NO (
```

```
401/147.1)
##                                              ATROPELLADO_100 <= 3:
##                                              :...ACC_S_LESION_100 <= 2
: NO (1066.7/428.7)
##                                              ACC_S_LESION_100 > 2:
##                                              :...OTROS_100 > 0: SI
(124/45.6)
##                                                 OTROS_100 <= 0: [
S7]
##
## SubTree [S6]
##
## traffic_signals_300 > 10: SI (55/13.3)
## traffic_signals_300 <= 10:
## :...traffic_signals_300 > 8: NO (45.7/12.3)
##     traffic_signals_300 <= 8:
##     :...ACC_C_LESION_200 > 55: NO (121.7/38)
##         ACC_C_LESION_200 <= 55:
##         :...school_300 > 0: SI (669/291.9)
##             school_300 <= 0:
##             :...bar_300 > 0: SI (35.3/9.8)
##                 bar_300 <= 0:
##                 :...MOTOCICLISTA_200 > 5: SI (343.2/133.7)
##                     MOTOCICLISTA_200 <= 5:
##                     :...VEH_DESBARRANCADO_200 > 0: NO (353.5/149.
1)
##                         VEH_DESBARRANCADO_200 <= 0:
##                         :...interseccion > 4:
##                             :...ATROPELLADO_FATAL_200 > 1: NO (45
.8/11.7)
##                             :    ATROPELLADO_FATAL_200 <= 1:
##                             :    :...MOTOCICLISTA_200 <= 4: SI (25
38.2/1189.4)
##                             :        MOTOCICLISTA_200 > 4: NO (69.
2/20.7)
##                             interseccion <= 4:
##                             :...ACC_S_LESION_200 > 45: SI (610/25
2.1)
##                                 ACC_S_LESION_200 <= 45:
##                                 :...VOLCADURA_200 > 3: SI (166.4/
66.1)
##                                     VOLCADURA_200 <= 3:
```

```
##                                             :...MOTOCICLISTA_200 > 1: NO
## (1595.7/688.5)
##                                                MOTOCICLISTA_200 <= 1:
##                                                :...ACC_PRENSADO_200 > 0:
## SI (42.2/14.7)
##                                                   ACC_PRENSADO_200 <= 0
## : [S8]
##
## SubTree [S7]
##
## VOLCADURA_200 > 2: NO (94.8/26.7)
## VOLCADURA_200 <= 2:
## :...ACC_S_LESION_100 <= 4: SI (1612.2/768.3)
##     ACC_S_LESION_100 > 4: NO (1832.2/818.5)
##
## SubTree [S8]
##
## ATROPELLADO_FATAL_200 > 0: NO (126.7/48.1)
## ATROPELLADO_FATAL_200 <= 0:
## :...ACC_S_LESION_200 > 40: SI (46.6/14)
##     ACC_S_LESION_200 <= 40:
##     :...ACC_S_LESION_100 > 5: NO (1090.7/455.2)
##         ACC_S_LESION_100 <= 5:
##         :...traffic_signals_300 <= 2: NO (2379.5/1166)
##             traffic_signals_300 > 2: SI (38.3/6)
##
## -----  Trial 27:  -----
##
## Decision tree:
##
## interseccion <= 0:
## :...metrobus > 0: SI (117.4/29.8)
## :    metrobus <= 0:
## :    :...rtp > 0: SI (1691.6/733.7)
## :        rtp <= 0:
## :        :...ACC_S_LESION_100 <= 19: NO (8655.6/185.2)
## :            ACC_S_LESION_100 > 19:
## :            :...museum > 0: SI (59.2/23.5)
## :                museum <= 0:
## :                :...bar > 0: SI (129.2/58.5)
## :                    bar <= 0:
## :                    :...PER_ATRAPADO_DESBARRANCADO_200 <= 1:
```

```
## :                                :...trolebus > 0: SI (118.6/51)
## :                                :   trolebus <= 0:
## :                                :   :...restaurant > 0: SI (225/100.8)
## :                                :       restaurant <= 0:
## :                                :       :...bank > 0: SI (68.8/31.9)
## :                                :           bank <= 0:
## :                                :           :...ACC_C_LESION_100 <= 21: N
O (4192.1/254.8)
## :                                :               ACC_C_LESION_100 > 21: [S
1]
## :                            PER_ATRAPADO_DESBARRANCADO_200 > 1:
## :                            :...metro > 0: SI (63/17.4)
## :                                metro <= 0:
## :                                :...ACC_C_LESION_200 <= 6: SI (26.2/5
)
## :                                    ACC_C_LESION_200 > 6:
## :                                    :...crossing > 0: SI (34.6/10.3)
## :                                        crossing <= 0:
## :                                        :...nightclub_300 > 4: SI (29
.2/9.5)
## :                                            nightclub_300 <= 4: [S2]
## interseccion > 0:
## :...ACC_S_LESION_100 > 18:
##     :...turning_circle <= 0: SI (11013.7/818.9)
##     :   turning_circle > 0: NO (44.4/12.2)
##     ACC_S_LESION_100 <= 18:
##     :...supermarket > 0: SI (27.7/1)
##         supermarket <= 0:
##         :...school > 0: SI (40.4/2.4)
##             school <= 0:
##             :...restaurant > 0: SI (35.5/5)
##                 restaurant <= 0:
##                 :...ACC_S_LESION_100 <= 4:
##                     :...ACC_S_LESION_100 <= 0: NO (848.3)
##                     :   ACC_S_LESION_100 > 0:
##                     :   :...rtp > 0: SI (60.6/13.6)
##                     :       rtp <= 0:
##                     :       :...VEH_DESBARRANCADO_200 > 1: NO (34
.5/4.3)
##                     :           VEH_DESBARRANCADO_200 <= 1:
##                     :           :...ACC_C_LESION_100 <= 0: [S3]
##                     :               ACC_C_LESION_100 > 0:
```

```
##                            :                        :...ACC_C_LESION_200 > 48: NO
   (256.3/91.5)
##                            :                        ACC_C_LESION_200 <= 48: [
   S4]
##                        ACC_S_LESION_100 > 4:
##                        :...rtp > 0: SI (163.6)
##                            rtp <= 0:
##                            :...metro_300 > 2: SI (33.5)
##                                metro_300 <= 2:
##                                :...interseccion > 2:
##                                    :...VEH_DESBARRANCADO_100 <= 1: S
   I (9441.2/2749)
##                                    :   VEH_DESBARRANCADO_100 > 1: NO
   (35.6/7.7)
##                                    interseccion <= 2:
##                                    :...MOTOCICLISTA_200 > 18: SI (29
   .4)
##                                        MOTOCICLISTA_200 <= 18: [S5]
##
## SubTree [S1]
##
## ATROPELLADO_FATAL_200 <= 4: NO (4000.1/943.4)
## ATROPELLADO_FATAL_200 > 4: SI (210.6/92.3)
##
## SubTree [S2]
##
## PER_ATRAPADO_DESBARRANCADO_100 <= 5: NO (5408.8/1720.8)
## PER_ATRAPADO_DESBARRANCADO_100 > 5: SI (637.6/295.8)
##
## SubTree [S3]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (39.8/13.3)
## PER_ATRAPADO_DESBARRANCADO_100 <= 1:
## :...interseccion <= 2:
##     :...traffic_signals_300 <= 12: NO (3241.6/784.1)
##     :   traffic_signals_300 > 12: SI (32.3/10.5)
##     interseccion > 2:
##     :...ACC_S_LESION_200 > 153: SI (27/4)
##         ACC_S_LESION_200 <= 153:
##         :...VEH_ATRAPADO_100 <= 0: NO (3485.7/1398.2)
##             VEH_ATRAPADO_100 > 0: SI (64.4/20.8)
##
```

```
## SubTree [S4]
##
## VEH_DESBARRANCADO_100 > 0: SI (166.4/64.8)
## VEH_DESBARRANCADO_100 <= 0:
## :...OTROS_200 > 1: SI (182.9/68.9)
##      OTROS_200 <= 1:
##      :...ATROPELLADO_100 <= 0:
##          :...MOTOCICLISTA_100 > 2: SI (27.6/5)
##          :   MOTOCICLISTA_100 <= 2:
##          :   :...ACC_S_LESION_100 <= 1: NO (773.4/245.5)
##          :       ACC_S_LESION_100 > 1:
##          :       :...metro_300 > 0: NO (40.4/8.1)
##          :           metro_300 <= 0:
##          :           :...ACC_C_LESION_100 > 6: NO (75.5/18.2)
##          :               ACC_C_LESION_100 <= 6:
##          :               :...traffic_signals_300 > 6: SI (66.1/19.
7)
##          :                   traffic_signals_300 <= 6:
##          :                   :...ATROPELLADO_200 > 17: NO (103.1/3
1.6)
##          :                       ATROPELLADO_200 <= 17:
##          :                       :...traffic_signals_300 > 2: SI (
40.8/11.2)
##          :                           traffic_signals_300 <= 2:
##          :                           :...VOLCADURA_100 > 0: SI (45
1.6/184.3)
##          :                               VOLCADURA_100 <= 0:
##          :                               :...ACC_C_LESION_200 > 29
: NO (52.5/9.1)
##          :                                   ACC_C_LESION_200 <= 2
9:
##          :                                   :...ACC_FATAL_200 <=
0: NO (2117.8/985.5)
##          :                                       ACC_FATAL_200 > 0
: SI (84.3/30.5)
##          ATROPELLADO_100 > 0:
##          :...ATROPELLADO_100 > 9: SI (33.9/3.8)
##              ATROPELLADO_100 <= 9:
##              :...hospital_300 > 2: SI (26.6/4.6)
##                  hospital_300 <= 2:
##                  :...bar_300 > 0: SI (29.8/7.4)
##                      bar_300 <= 0:
```

```
##                             :...MOTOCICLISTA_200 > 8: NO (29.8/3.3)
##                                MOTOCICLISTA_200 <= 8:
##                                :...traffic_signals_300 > 0: NO (276.9/10
8.9)
##                                   traffic_signals_300 <= 0:
##                                   :...ACC_PRENSADO_200 > 0: SI (133/40.
3)
##                                      ACC_PRENSADO_200 <= 0:
##                                      :...interseccion > 4: NO (755.1/3
32.9)
##                                         interseccion <= 4:
##                                         :...school_300 > 4: NO (26.2/
6.9)
##                                            school_300 <= 4:
##                                            :...interseccion > 2: SI
(1909.1/740.1)
##                                               interseccion <= 2:
##                                               :...ATROPELLADO_100 >
7: SI (44.5/7.2)
##                                                  ATROPELLADO_100 <
= 7: [S6]
##
## SubTree [S5]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 2: SI (46.1/5.7)
## PER_ATRAPADO_DESBARRANCADO_100 <= 2:
## :...school_300 > 6: SI (27.3/3.3)
##      school_300 <= 6:
##      :...ATROPELLADO_200 > 67: SI (139.6/26.9)
##          ATROPELLADO_200 <= 67:
##          :...restaurant_300 > 10: SI (82.3/15.7)
##              restaurant_300 <= 10:
##              :...restaurant_300 > 6: NO (90.6/32.1)
##                  restaurant_300 <= 6:
##                  :...ACC_S_LESION_100 > 16: SI (1446.6/474.9)
##                      ACC_S_LESION_100 <= 16:
##                      :...ATROPELLADO_100 > 12: SI (152.7/38.5)
##                          ATROPELLADO_100 <= 12:
##                          :...ATROPELLADO_FATAL_100 > 0: NO (618.7/
258.4)
##                              ATROPELLADO_FATAL_100 <= 0:
##                              :...VEH_ATRAPADO_200 > 2: SI (34.7/5.
```

```
3)
##                                                 VEH_ATRAPADO_200 <= 2:
##                                                 :...VEH_ATRAPADO_100 > 1: NO (34.
3/10.1)
##                                                 VEH_ATRAPADO_100 <= 1:
##                                                 :...OTROS_200 > 1: SI (545.1/
167.3)
##                                                 OTROS_200 <= 1:
##                                                 :...MOTOCICLISTA_100 > 4:
NO (80.7/29.5)
##                                                 MOTOCICLISTA_100 <= 4
:
##                                                 :...hospital_300 > 0:
SI (282.7/87.2)
##                                                 hospital_300 <= 0
: [S7]
##
## SubTree [S6]
##
## ATROPELLADO_200 > 26: SI (58.1/9.7)
## ATROPELLADO_200 <= 26:
## :...ACC_FATAL_200 > 1: SI (34.3/5)
##      ACC_FATAL_200 <= 1:
##      :...ACC_FATAL_100 > 0: NO (29.1/6.6)
##           ACC_FATAL_100 <= 0:
##           :...VEH_ATRAPADO_200 > 1: SI (48.8/15.3)
##                VEH_ATRAPADO_200 <= 1:
##                :...ACC_C_LESION_200 <= 5: NO (1218.6/492.3)
##                     ACC_C_LESION_200 > 5: SI (1588/716.3)
##
## SubTree [S7]
##
## ACC_FATAL_100 > 0: SI (324.8/111.3)
## ACC_FATAL_100 <= 0:
## :...traffic_signals_300 > 14: NO (77.1/24.4)
##      traffic_signals_300 <= 14:
##      :...ACC_C_LESION_200 > 72: SI (174.9/53.2)
##           ACC_C_LESION_200 <= 72:
##           :...MOTOCICLISTA_200 > 14: NO (30.2/2)
##                MOTOCICLISTA_200 <= 14:
##                :...ATROPELLADO_FATAL_200 > 1: NO (221/87.3)
##                     ATROPELLADO_FATAL_200 <= 1:
```

```
##                         :...ACC_S_LESION_200 > 205: NO (38.2/3.7)
##                             ACC_S_LESION_200 <= 205:
##                             :...MOTOCICLISTA_200 > 11: SI (34.7)
##                                 MOTOCICLISTA_200 <= 11:
##                                 :...VOLCADURA_200 > 4: NO (674.2/306.4)
##                                     VOLCADURA_200 <= 4:
##                                     :...PER_ATRAPADO_DESBARRANCADO_100 >
1: NO (101.6/40.7)
##                                         PER_ATRAPADO_DESBARRANCADO_100 <=
1:
##                                         :...VEH_DESBARRANCADO_100 > 0: SI
(130.7/42.8)
##                                             VEH_DESBARRANCADO_100 <= 0:
##                                             :...ACC_C_LESION_100 > 17: SI
(26.4)
##                                                 ACC_C_LESION_100 <= 17:
##                                                 :...rtp_300 > 14: NO (459
/188.8)
##                                                     rtp_300 <= 14: [S8]
##
## SubTree [S8]
##
## VEH_DESBARRANCADO_200 > 0: SI (163.4/57.1)
## VEH_DESBARRANCADO_200 <= 0:
## :...OTROS_100 > 0: SI (530.3/195.8)
##     OTROS_100 <= 0:
##     :...VEH_ATRAPADO_200 > 0: SI (859.1/329)
##         VEH_ATRAPADO_200 <= 0:
##         :...MOTOCICLISTA_200 > 6: NO (422/189.2)
##             MOTOCICLISTA_200 <= 6:
##             :...ACC_C_LESION_200 > 52: SI (46/5)
##                 ACC_C_LESION_200 <= 52:
##                 :...ATROPELLADO_100 > 5: NO (1464.8/713.5)
##                     ATROPELLADO_100 <= 5:
##                     :...ATROPELLADO_100 > 4: SI (752.6/276.1)
##                         ATROPELLADO_100 <= 4:
##                         :...restaurant_300 > 2: NO (291.5/136.2)
##                             restaurant_300 <= 2:
##                             :...traffic_signals_300 > 0: SI (687.
4/264)
##                                 traffic_signals_300 <= 0:
##                                 :...ACC_S_LESION_200 > 111: SI (6
```

```
6/16.1)
##                                                ACC_S_LESION_200 <= 111: [S9]
##
## SubTree [S9]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 2: NO (26.9/4.7)
## PER_ATRAPADO_DESBARRANCADO_200 <= 2:
## :...ACC_S_LESION_200 > 84: NO (115.1/39.4)
##      ACC_S_LESION_200 <= 84:
##      :...ACC_S_LESION_200 > 81: SI (32.5/6.2)
##          ACC_S_LESION_200 <= 81:
##          :...ACC_PRENSADO_200 > 0: SI (220.9/79.6)
##              ACC_PRENSADO_200 <= 0:
##              :...ACC_C_LESION_100 > 4: SI (1501.8/588.1)
##                  ACC_C_LESION_100 <= 4:
##                  :...school_300 > 0: NO (661.1/294.4)
##                      school_300 <= 0:
##                      :...ATROPELLADO_FATAL_200 > 0: SI (289.8/111.
1)
##                          ATROPELLADO_FATAL_200 <= 0:
##                          :...ACC_C_LESION_200 > 17: NO (295.7/127.
1)
##                              ACC_C_LESION_200 <= 17:
##                              :...PER_ATRAPADO_DESBARRANCADO_200 >
1: NO (66.2/26.7)
##                                  PER_ATRAPADO_DESBARRANCADO_200 <=
1:
##                                  :...rtp_300 > 10: NO (133.4/57.3)
##                                      rtp_300 <= 10:
##                                      :...rtp_300 > 6: SI (465.4/17
7.6)
##                                          rtp_300 <= 6:
##                                          :...ACC_C_LESION_200 > 15
: NO (118.3/45.8)
##                                              ACC_C_LESION_200 <= 1
5:
##                                              :...crossing_300 > 2:
NO (79.2/35.1)
##                                                  crossing_300 <= 2
: [S10]
##
## SubTree [S10]
```

```
##
## PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (185.6/69.3)
## PER_ATRAPADO_DESBARRANCADO_100 <= 0:
## :...PER_ATRAPADO_DESBARRANCADO_200 <= 0: SI (3926/1713.9)
##     PER_ATRAPADO_DESBARRANCADO_200 > 0: NO (321.2/142.4)
##
## -----  Trial 28:  -----
##
## Decision tree:
##
## interseccion <= 0:
## :...traffic_signals > 0: SI (77.2)
## :    traffic_signals <= 0:
## :    :...cruce_peligroso > 0: SI (48.3)
## :        cruce_peligroso <= 0:
## :        :...metrobus > 0: SI (91.5/14.1)
## :            metrobus <= 0:
## :            :...ACC_S_LESION_100 <= 31: NO (11080.9/560.7)
## :                ACC_S_LESION_100 > 31:
## :                :...rtp > 0: SI (880.4/314.7)
## :                    rtp <= 0:
## :                    :...VEH_DESBARRANCADO_200 > 1: NO (33.6)
## :                        VEH_DESBARRANCADO_200 <= 1:
## :                        :...hotel_300 > 2: SI (1369.1/636.3)
## :                            hotel_300 <= 2:
## :                            :...MOTOCICLISTA_100 > 13: SI (618.2/
## 283.7)
## :                                MOTOCICLISTA_100 <= 13:
## :                                :...OTROS_200 > 6: SI (49/17.8)
## :                                    OTROS_200 <= 6: [S1]
## interseccion > 0:
## :...ACC_S_LESION_100 > 8:
##     :...ACC_S_LESION_100 > 18:
##     :   :...VEH_DESBARRANCADO_100 <= 0: SI (9260.6/205)
##     :   :   VEH_DESBARRANCADO_100 > 0: NO (198.6/88.5)
##     :   ACC_S_LESION_100 <= 18:
##     :   :...rtp > 0: SI (98)
##     :       rtp <= 0:
##     :       :...interseccion > 2: SI (3149.3/295.5)
##     :           interseccion <= 2:
##     :           :...ATROPELLADO_FATAL_100 > 1: NO (43.8/14.5)
##     :               ATROPELLADO_FATAL_100 <= 1:
```

```
##       :                              :...ACC_S_LESION_200 > 22: SI (9322.7/2403.7)
##       :                           ACC_S_LESION_200 <= 22:
##       :                           :...school_300 > 2: SI (47.4/3.5)
##       :                              school_300 <= 2:
##       :                              :...ACC_S_LESION_200 <= 9: SI (33.6/3
.5)
##       :                                 ACC_S_LESION_200 > 9:
##       :                                 :...ACC_FATAL_200 > 1: NO (26.9/4
.8)
##       :                                    ACC_FATAL_200 <= 1:
##       :                                    :...ATROPELLADO_200 > 13: SI
(145.2/33.9)
##       :                                       ATROPELLADO_200 <= 13:
##       :                                       :...MOTOCICLISTA_200 > 4:
SI (89.9/22.8)
##       :                                          MOTOCICLISTA_200 <= 4
:
##       :                                          :...ACC_C_LESION_200
> 23: SI (41.7/7.7)
##       :                                             ACC_C_LESION_200
<= 23: [S2]
##       ACC_S_LESION_100 <= 8:
##       :...bar_300 > 2: SI (43.8/8.6)
##          bar_300 <= 2:
##          :...VEH_ATRAPADO_200 > 2: SI (35.6/7)
##             VEH_ATRAPADO_200 <= 2:
##             :...ACC_S_LESION_100 <= 2:
##                :...ACC_S_LESION_100 <= 0: NO (771.6)
##                :  ACC_S_LESION_100 > 0:
##                :  :...crossing_300 > 12: NO (38.7)
##                :     crossing_300 <= 12:
##                :     :...ACC_S_LESION_200 > 189: SI (79.9/16.1
)
##                :        ACC_S_LESION_200 <= 189:
##                :        :...ACC_PRENSADO_200 > 1: SI (40.2/11
.3)
##                :           ACC_PRENSADO_200 <= 1:
##                :           :...hospital_300 > 2: SI (43.3/12
.7)
##                :              hospital_300 <= 2:
##                :              :...restaurant_300 > 4: NO (6
3.7/5)
```

```
##                            :                           restaurant_300 <= 4:
##                            :                           :...metro_300 > 0: SI (10
1.1/40.1)
##                            :                               metro_300 <= 0:
##                            :                               :...restaurant_300 >
2: NO (73.8/4.6)
##                            :                                   restaurant_300 <=
2:
##                            :                                   :...hotel_300 > 0
: SI (35.2/13.5)
##                            :                                       hotel_300 <=
0: [S3]
##                    ACC_S_LESION_100 > 2:
##                    :...rtp > 0: SI (70.9)
##                        rtp <= 0:
##                        :...VOLCADURA_100 > 15: NO (44/5.1)
##                            VOLCADURA_100 <= 15:
##                            :...crossing_300 > 18: SI (42.5/8.4)
##                                crossing_300 <= 18:
##                                :...FERROVIARIO_200 > 0: SI (26.3/6.3
)
##                                    FERROVIARIO_200 <= 0:
##                                    :...interseccion > 2:
##                                        :...hospital_300 > 0: SI (99.
8/7.7)
##                                        :   hospital_300 <= 0:
##                                        :   :...ACC_PRENSADO_100 > 0:
SI (32.3/3.7)
##                                        :       ACC_PRENSADO_100 <= 0
:
##                                        :       :...ACC_S_LESION_100
> 7: SI (888/186.9)
##                                        :           ACC_S_LESION_100
<= 7:
##                                        :           :...OTROS_200 > 3
: NO (31.3/7.2)
##                                        :               OTROS_200 <=
3: [S4]
##                                        interseccion <= 2:
##                                        :...ATROPELLADO_100 > 5: SI (
915.4/289.4)
##                                            ATROPELLADO_100 <= 5:
```

```
##                                          :...OTROS_100 > 1: SI (36
.6/7.9)
##                                               OTROS_100 <= 1: [S5]
##
## SubTree [S1]
##
## PER_ATRAPADO_DESBARRANCADO_200 <= 1: NO (5700.9/915.4)
## PER_ATRAPADO_DESBARRANCADO_200 > 1:
## :...trolebus > 0: SI (68.4/20.8)
##     trolebus <= 0:
##     :...bar_300 > 18: SI (55.6/15)
##         bar_300 <= 18:
##         :...VOLCADURA_100 > 12: SI (189.8/83.7)
##             VOLCADURA_100 <= 12:
##             :...VOLCADURA_100 > 9: NO (126.7/20.2)
##                 VOLCADURA_100 <= 9:
##                 :...bar > 0: NO (61.1/13.2)
##                     bar <= 0:
##                     :...ACC_S_LESION_200 > 576: SI (111.1/44.8)
##                         ACC_S_LESION_200 <= 576:
##                         :...ACC_FATAL_200 > 2: NO (60.3/16.2)
##                             ACC_FATAL_200 <= 2:
##                             :...ATROPELLADO_FATAL_100 > 3: SI (50
.8/12.2)
##                                 ATROPELLADO_FATAL_100 <= 3:
##                                 :...VEH_ATRAPADO_200 > 2: NO (72.
5/6)
##                                     VEH_ATRAPADO_200 <= 2:
##                                     :...VOLCADURA_100 > 6: SI (31
2.8/146.3)
##                                         VOLCADURA_100 <= 6:
##                                         :...restaurant_300 <= 70:
NO (3162.8/971.6)
##                                             restaurant_300 > 70:
SI (58.5/16.5)
##
## SubTree [S2]
##
## ACC_C_LESION_200 > 17: NO (47.8/8.5)
## ACC_C_LESION_200 <= 17:
## :...ACC_PRENSADO_200 > 0: SI (28.6/8.4)
##     ACC_PRENSADO_200 <= 0:
```

```
##        :...restaurant_300 > 0: SI (113/18.4)
##           restaurant_300 <= 0:
##           :...VEH_ATRAPADO_200 > 0: SI (82.4/24.5)
##              VEH_ATRAPADO_200 <= 0:
##              :...traffic_signals_300 > 0: NO (77/17.6)
##                 traffic_signals_300 <= 0:
##                 :...hospital_300 > 0: SI (38.7/12.8)
##                    hospital_300 <= 0:
##                    :...ATROPELLADO_100 <= 3: NO (1584.7/668.8)
##                       ATROPELLADO_100 > 3: SI (641.2/282.7)
##
## SubTree [S3]
##
## ACC_FATAL_200 > 1: SI (77.2/30.5)
## ACC_FATAL_200 <= 1:
## :...ATROPELLADO_100 <= 0:
##     :...VEH_DESBARRANCADO_100 <= 0: NO (3219.6/777.4)
##     :   VEH_DESBARRANCADO_100 > 0: SI (92.6/31.2)
##     ATROPELLADO_100 > 0:
##     :...traffic_signals_300 > 2: SI (73/22.2)
##         traffic_signals_300 <= 2:
##         :...rtp_300 <= 12: NO (4035.7/1635.8)
##             rtp_300 > 12: SI (111.3/33.8)
##
## SubTree [S4]
##
## PER_ATRAPADO_DESBARRANCADO_100 > 1: SI (65.8/11.5)
## PER_ATRAPADO_DESBARRANCADO_100 <= 1:
## :...PER_ATRAPADO_DESBARRANCADO_200 > 3: SI (30.6)
##     PER_ATRAPADO_DESBARRANCADO_200 <= 3:
##     :...ATROPELLADO_100 <= 0:
##         :...PER_ATRAPADO_DESBARRANCADO_100 > 0: SI (132.6/30)
##         :   PER_ATRAPADO_DESBARRANCADO_100 <= 0:
##         :   :...restaurant_300 > 4: SI (37.8/9.4)
##         :       restaurant_300 <= 4:
##         :       :...school_300 <= 0: NO (2316.8/1036.4)
##         :           school_300 > 0: SI (121.7/37.7)
##         ATROPELLADO_100 > 0:
##         :...crossing_300 > 6: NO (64.7/24.1)
##             crossing_300 <= 6:
##             :...ATROPELLADO_100 > 4: SI (555.5/114.1)
##                 ATROPELLADO_100 <= 4:
```

```
##                          :...ACC_S_LESION_200 > 23: SI (1911.7/508.6)
##                             ACC_S_LESION_200 <= 23:
##                             :...hotel_300 > 0: NO (28.6/3.3)
##                                hotel_300 <= 0:
##                                :...traffic_signals_300 > 2: SI (31.5/2.8
## )
##                                   traffic_signals_300 <= 2:
##                                   :...ACC_C_LESION_200 > 16: SI (53.3/5
## .1)
##                                      ACC_C_LESION_200 <= 16:
##                                      :...MOTOCICLISTA_200 > 4: NO (60.
## 1/13)
##                                         MOTOCICLISTA_200 <= 4:
##                                         :...VOLCADURA_200 > 4: SI (32
## .1/4)
##                                            VOLCADURA_200 <= 4:
##                                            :...interseccion > 4: SI
## (843.8/243)
##                                               interseccion <= 4:
##                                               :...VOLCADURA_100 > 2
## : NO (38.3/8)
##                                                  VOLCADURA_100 <=
## 2: [S6]
##
## SubTree [S5]
##
## VEH_DESBARRANCADO_200 > 1: NO (60.7/12.1)
## VEH_DESBARRANCADO_200 <= 1:
## :...crossing_300 > 8: NO (56.7/11.6)
##     crossing_300 <= 8:
##     :...metro_300 > 0: SI (194.9/70.3)
##         metro_300 <= 0:
##         :...VEH_DESBARRANCADO_100 > 0: SI (153.6/55.9)
##             VEH_DESBARRANCADO_100 <= 0:
##             :...ACC_C_LESION_200 <= 2:
##                 :...ACC_FATAL_100 <= 0: NO (2591.8/809.7)
##                 :   ACC_FATAL_100 > 0: SI (35/6.6)
##                 ACC_C_LESION_200 > 2:
##                 :...VOLCADURA_200 > 19: NO (77.7/14.1)
##                     VOLCADURA_200 <= 19:
##                     :...ATROPELLADO_FATAL_200 > 2: NO (34.9/8.3)
##                         ATROPELLADO_FATAL_200 <= 2:
```

```
##                            :...school_300 > 2: SI (209.1/71.7)
##                               school_300 <= 2:
##                               :...hotel_300 > 0: NO (120/30.6)
##                                  hotel_300 <= 0: [S7]
##
## SubTree [S6]
##
## ACC_C_LESION_100 <= 0: SI (579.9/202.6)
## ACC_C_LESION_100 > 0: NO (1763.2/786.3)
##
## SubTree [S7]
##
## PER_ATRAPADO_DESBARRANCADO_200 > 0: SI (1771.6/729.2)
## PER_ATRAPADO_DESBARRANCADO_200 <= 0:
## :...ACC_C_LESION_100 > 4: SI (1121.1/434.8)
##     ACC_C_LESION_100 <= 4:
##     :...crossing_300 > 6: SI (35.5/10.9)
##         crossing_300 <= 6:
##         :...bar_300 > 0: SI (41/15.1)
##             bar_300 <= 0:
##             :...MOTOCICLISTA_100 > 0: NO (2105.6/1045.6)
##                 MOTOCICLISTA_100 <= 0:
##                 :...ACC_FATAL_200 > 1: NO (44.4)
##                     ACC_FATAL_200 <= 1:
##                     :...rtp_300 > 20: SI (30.8/7.5)
##                         rtp_300 <= 20:
##                         :...rtp_300 > 12: NO (106.8/14.9)
##                             rtp_300 <= 12:
##                             :...OTROS_200 > 1: SI (64.6/23.1)
##                                 OTROS_200 <= 1:
##                                 :...ACC_FATAL_200 > 0: SI (250.8/
112.8)
##                                     ACC_FATAL_200 <= 0:
##                                     :...MOTOCICLISTA_200 > 6: SI
(80.9/32.4)
##                                         MOTOCICLISTA_200 <= 6:
##                                         :...ATROPELLADO_100 <= 0:
NO (1285.3/390.4)
##                                             ATROPELLADO_100 > 0:
##                                             :...VOLCADURA_200 > 6
: SI (63.3/18.5)
##                                                 VOLCADURA_200 <=
```

```
6: [S8]
##
## SubTree [S8]
##
## ACC_PRENSADO_200 > 0: NO (75.7/14.9)
## ACC_PRENSADO_200 <= 0:
## :...VOLCADURA_100 > 1: NO (62.1/12.2)
##     VOLCADURA_100 <= 1:
##     :...ATROPELLADO_FATAL_200 > 0: SI (295.4/130.2)
##         ATROPELLADO_FATAL_200 <= 0:
##         :...ACC_S_LESION_200 <= 8: SI (185.3/65.1)
##             ACC_S_LESION_200 > 8: NO (2383.8/948.8)
##
## -----  Trial 29:  -----
##
## Decision tree:
##
## interseccion <= 0:
## :...metrobus > 0: SI (68.5)
## :    metrobus <= 0:
## :    :...traffic_signals > 0: SI (67.7)
## :        traffic_signals <= 0:
## :        :...cruce_peligroso > 0: SI (41.7)
## :            cruce_peligroso <= 0:
## :            :...cetram > 0: SI (48.6/12)
## :                cetram <= 0:
## :                :...kindergarten > 0: SI (31.1/7.5)
## :                    kindergarten <= 0:
## :                    :...supermarket > 0: SI (214/74.7)
## :                        supermarket <= 0:
## :                        :...trolebus > 0: SI (355.4/137.7)
## :                            trolebus <= 0:
## :                            :...metro > 0: SI (155.7/55.5)
## :                                metro <= 0:
## :                                :...ACC_S_LESION_100 <= 47:
## :                                    :...nightclub_300 > 2: SI (42
## .4/14.9)
## :                                    :   nightclub_300 <= 2: [S1]
## :                                    ACC_S_LESION_100 > 47:
## :                                    :...ATROPELLADO_100 > 63: SI
## (1012.2/368.9)
## :                                        ATROPELLADO_100 <= 63:
```

```
## :                                                :...MOTOCICLISTA_200 > 35
: SI (64/13.4)
## :                                                MOTOCICLISTA_200 <= 3
5: [S2]
## interseccion > 0:
## :...ACC_S_LESION_100 > 6:
##      :...ACC_S_LESION_100 > 18: SI (8691.8/166.7)
##      :   ACC_S_LESION_100 <= 18:
##      :   :...interseccion > 2: SI (4460/242.1)
##      :        interseccion <= 2:
##      :        :...ACC_PRENSADO_200 > 1: SI (85.5)
##      :            ACC_PRENSADO_200 <= 1:
##      :            :...rtp > 0: SI (61)
##      :                rtp <= 0:
##      :                :...PER_ATRAPADO_DESBARRANCADO_100 > 2: SI (3
8.2)
##      :                    PER_ATRAPADO_DESBARRANCADO_100 <= 2:
##      :                    :...ATROPELLADO_FATAL_200 > 2: NO (210.4/
71.5)
##      :                        ATROPELLADO_FATAL_200 <= 2:
##      :                        :...bar_300 > 0: SI (189.4/8.7)
##      :                            bar_300 <= 0:
##      :                            :...VOLCADURA_200 > 15: NO (180.9
/64.2)
##      :                                VOLCADURA_200 <= 15:
##      :                                :...ATROPELLADO_100 > 10: SI
(450.9/27.7)
##      :                                    ATROPELLADO_100 <= 10: [S
3]
##      ACC_S_LESION_100 <= 6:
##      :...ACC_S_LESION_100 <= 1: NO (3509.4/576.6)
##          ACC_S_LESION_100 > 1:
##          :...rtp > 0: SI (117.5)
##              rtp <= 0:
##              :...restaurant > 0: SI (30.6)
##                  restaurant <= 0:
##                  :...VOLCADURA_100 > 5: NO (125.1/15.4)
##                      VOLCADURA_100 <= 5:
##                      :...interseccion > 2:
##                          :...ACC_PRENSADO_200 > 1: SI (33.2)
##                          :   ACC_PRENSADO_200 <= 1:
##                          :   :...VEH_DESBARRANCADO_200 > 1: NO (50
```

```
.1/12.4)
##                                 :        VEH_DESBARRANCADO_200 <= 1:
##                                 :        :...VEH_DESBARRANCADO_100 > 0: SI
(182.1/25.7)
##                                 :           VEH_DESBARRANCADO_100 <= 0:
##                                 :           :...ACC_S_LESION_100 > 3:
##                                 :              :...school_300 > 2: SI (4
7.1)
##                                 :              :   school_300 <= 2:
##                                 :              :   :...ATROPELLADO_100 >
4: SI (224.2/5.9)
##                                 :              :      ATROPELLADO_100 <
= 4:
##                                 :              :      :...hospital_300
> 0: SI (27.9)
##                                 :              :         hospital_300
<= 0: [S4]
##                                 :              ACC_S_LESION_100 <= 3: [S
5]
##                                 interseccion <= 2:
##                                 :...school_300 > 4: NO (52.1/1.6)
##                                    school_300 <= 4:
##                                    :...ACC_C_LESION_100 <= 0: NO (3498.6
/931)
##                                       ACC_C_LESION_100 > 0:
##                                       :...ATROPELLADO_100 > 8: SI (56.4
)
##                                          ATROPELLADO_100 <= 8:
##                                          :...VOLCADURA_200 > 19: NO (3
1.3)
##                                             VOLCADURA_200 <= 19: [S6]
##
## SubTree [S1]
##
## PER_ATRAPADO_DESBARRANCADO_100 <= 5: NO (11790.7/620.5)
## PER_ATRAPADO_DESBARRANCADO_100 > 5: SI (190.9/69.3)
##
## SubTree [S2]
##
## ATROPELLADO_FATAL_200 > 5: SI (235.3/95.1)
## ATROPELLADO_FATAL_200 <= 5:
## :...MOTOCICLISTA_100 > 24: SI (33.7/9)
```

```
##        MOTOCICLISTA_100 <= 24:
##        :...hotel <= 0: NO (8340.7/1812)
##             hotel > 0: SI (96.4/31.5)
##
## SubTree [S3]
##
## VEH_DESBARRANCADO_200 > 0: NO (504.9/204.5)
## VEH_DESBARRANCADO_200 <= 0:
## :...VOLCADURA_100 > 8: NO (32.8/5.3)
##      VOLCADURA_100 <= 8:
##      :...OTROS_100 > 1: SI (41.4)
##           OTROS_100 <= 1:
##           :...VOLCADURA_200 > 13: SI (40.4)
##                VOLCADURA_200 <= 13:
##                :...OTROS_200 > 2: NO (91.4/30.8)
##                     OTROS_200 <= 2:
##                     :...hospital_300 > 0: SI (165/7.4)
##                          hospital_300 <= 0:
##                          :...VOLCADURA_200 > 10: NO (65.7/23)
##                               VOLCADURA_200 <= 10:
##                               :...FERROVIARIO_200 > 0: NO (25.2/9.5)
##                                    FERROVIARIO_200 <= 0:
##                                    :...ACC_S_LESION_200 > 25:
##                                        :...ACC_S_LESION_100 > 9: SI (508
## 3/1037.4)
##                                        :   ACC_S_LESION_100 <= 9:
##                                        :   :...MOTOCICLISTA_100 > 3: NO
## (35.1/5.9)
##                                        :       MOTOCICLISTA_100 <= 3:
##                                        :       :...crossing_300 <= 0: SI
## (2992.7/893)
##                                        :           crossing_300 > 0: NO
## (166/63.2)
##                                        ACC_S_LESION_200 <= 25:
##                                        :...MOTOCICLISTA_100 > 4: NO (43.
## 1/7.7)
##                                            MOTOCICLISTA_100 <= 4:
##                                            :...MOTOCICLISTA_200 > 5: SI
## (41.1/2)
##                                                MOTOCICLISTA_200 <= 5:
##                                                :...ATROPELLADO_200 > 15:
## SI (105.1/18.2)
```

```
##                                                    ATROPELLADO_200 <= 15
:
##                                                      :...ATROPELLADO_100 >
6: NO (355.4/134.3)
##                                                         ATROPELLADO_100 <
= 6: [S7]
##
## SubTree [S4]
##
## restaurant_300 > 0: NO (413.9/173.7)
## restaurant_300 <= 0:
## :...rtp_300 > 14: NO (189.3/63.8)
##      rtp_300 <= 14:
##      :...ACC_C_LESION_200 <= 57: SI (4883.4/1273.5)
##          ACC_C_LESION_200 > 57: NO (81/25.6)
##
## SubTree [S5]
##
## VEH_DESBARRANCADO_200 > 0: NO (75.3/6)
## VEH_DESBARRANCADO_200 <= 0:
## :...ATROPELLADO_FATAL_200 > 1: NO (114.3/20.5)
##      ATROPELLADO_FATAL_200 <= 1:
##      :...hotel_300 > 0: SI (26.1/3.2)
##          hotel_300 <= 0:
##          :...ATROPELLADO_100 > 3: SI (480.6/107.6)
##              ATROPELLADO_100 <= 3:
##              :...ACC_C_LESION_100 > 1: SI (1161.9/394.8)
##                  ACC_C_LESION_100 <= 1:
##                  :...MOTOCICLISTA_100 > 1: SI (131.5/18.7)
##                      MOTOCICLISTA_100 <= 1:
##                      :...VEH_ATRAPADO_100 > 0: SI (106.2/26.5)
##                          VEH_ATRAPADO_100 <= 0:
##                          :...PER_ATRAPADO_DESBARRANCADO_200 > 0: S
I (514.9/185.8)
##                              PER_ATRAPADO_DESBARRANCADO_200 <= 0:
##                              :...ACC_PRENSADO_200 > 0: SI (41.2/7.
8)
##                                  ACC_PRENSADO_200 <= 0:
##                                  :...traffic_signals_300 <= 2: NO
(2142.4/746)
##                                      traffic_signals_300 > 2: SI (
95.7/24.1)
```

```
##
## SubTree [S6]
##
## ATROPELLADO_FATAL_100 > 0: NO (208.5/35.1)
## ATROPELLADO_FATAL_100 <= 0:
## :...hospital_300 > 0: SI (190.3/33.3)
##     hospital_300 <= 0:
##     :...ACC_S_LESION_100 <= 3:
##         :...ATROPELLADO_FATAL_200 > 1: SI (36.3)
##         :   ATROPELLADO_FATAL_200 <= 1:
##         :   :...ACC_PRENSADO_200 > 0: SI (209.3/63.6)
##         :       ACC_PRENSADO_200 <= 0:
##         :       :...VOLCADURA_100 > 3: SI (32.6/6.1)
##         :           VOLCADURA_100 <= 3:
##         :           :...VEH_ATRAPADO_200 > 1: SI (35.5/10.3)
##         :               VEH_ATRAPADO_200 <= 1:
##         :               :...restaurant_300 <= 0: NO (2759.7/930.9
)
##         :                   restaurant_300 > 0: SI (216.5/90.4)
##         ACC_S_LESION_100 > 3:
##         :...PER_ATRAPADO_DESBARRANCADO_200 > 2: NO (124.8/28.1)
##             PER_ATRAPADO_DESBARRANCADO_200 <= 2:
##             :...traffic_signals_300 > 10: NO (112.5/38.8)
##                 traffic_signals_300 <= 10:
##                 :...ACC_C_LESION_200 > 73: SI (25.3)
##                     ACC_C_LESION_200 <= 73:
##                     :...ACC_C_LESION_200 > 55: NO (53.3/11.2)
##                         ACC_C_LESION_200 <= 55:
##                         :...ATROPELLADO_FATAL_200 > 1: SI (43.4/7
.4)
##                             ATROPELLADO_FATAL_200 <= 1:
##                             :...rtp_300 > 8: NO (480.3/177.7)
##                                 rtp_300 <= 8:
##                                 :...traffic_signals_300 > 0: SI (
332.4/80.5)
##                                     traffic_signals_300 <= 0:
##                                     :...crossing_300 > 2: NO (131
/39.1)
##                                         crossing_300 <= 2:
##                                         :...ACC_C_LESION_200 > 14
: SI (743.1/220.7)
##                                             ACC_C_LESION_200 <= 1
```

```
4:
##                                             :...ACC_C_LESION_100
> 9: NO (73.4/11.2)
##                                                    ACC_C_LESION_100
<= 9: [S8]
##
## SubTree [S7]
##
## PER_ATRAPADO_DESBARRANCADO_100 <= 0: SI (5433.5/2087.8)
## PER_ATRAPADO_DESBARRANCADO_100 > 0: NO (363.1/154.9)
##
## SubTree [S8]
##
## ATROPELLADO_FATAL_200 > 0: NO (167.5/56.7)
## ATROPELLADO_FATAL_200 <= 0:
## :...VEH_ATRAPADO_100 > 0: NO (33/10.7)
##     VEH_ATRAPADO_100 <= 0:
##     :...school_300 > 2: SI (57.5/7.8)
##         school_300 <= 2:
##         :...school_300 <= 0: SI (3731.3/1570.7)
##             school_300 > 0: NO (213.9/73.5)
##
##
## Evaluation on training data (94510 cases):
##
## Trial           Decision Tree
## -----           ----------------
##     Size          Errors
##
##     0         60 15509(16.4%)
##     1         56 20039(21.2%)
##     2         68 20924(22.1%)
##     3         97 21732(23.0%)
##     4         82 21350(22.6%)
##     5         79 22498(23.8%)
##     6         73 28755(30.4%)
##     7         63 19084(20.2%)
##     8        128 29821(31.6%)
##     9        102 27095(28.7%)
##    10         68 26909(28.5%)
##    11         74 23193(24.5%)
##    12         14 17657(18.7%)
```

```
##     13        31 30814(32.6%)
##     14        23 35187(37.2%)
##     15        37 27702(29.3%)
##     16         6 30066(31.8%)
##     17        46 19283(20.4%)
##     18        72 26733(28.3%)
##     19        50 30836(32.6%)
##     20        53 24744(26.2%)
##     21        66 18588(19.7%)
##     22        85 26261(27.8%)
##     23       111 19200(20.3%)
##     24       137 19328(20.5%)
##     25       118 16229(17.2%)
##     26       106 16626(17.6%)
##     27       117 15991(16.9%)
##     28       115 15961(16.9%)
##     29        96 15692(16.6%)
## boost            14991(15.9%)   <<
##
##
##      (a)    (b)     <-classified as
##     ----   ----
##   50061   7621     (a): class NO
##    7370 29458     (b): class SI
##
##
##  Attribute usage:
##
##  100.00% cruce_peligroso
##  100.00% interseccion
##  100.00% traffic_signals
##  100.00% ACC_C_LESION_100
##  100.00% ACC_S_LESION_100
##  100.00% ACC_S_LESION_200
##   99.96% rtp
##   99.84% trolebus
##   99.75% PER_ATRAPADO_DESBARRANCADO_100
##   99.44% hotel_300
##   99.41% MOTOCICLISTA_100
##   99.30% bank
##   99.30% nightclub_300
##   99.06% hotel
```

```
##       99.05% bar
##       98.99% supermarket
##       98.87% ATROPELLADO_FATAL_100
##       97.79% turning_circle
##       97.68% metrobus
##       97.53% ATROPELLADO_100
##       97.11% metro
##       96.58% kindergarten
##       94.33% VOLCADURA_100
##       93.46% ACC_C_LESION_200
##       87.69% ATROPELLADO_FATAL_200
##       87.55% OTROS_100
##       83.32% restaurant
##       82.99% VEH_ATRAPADO_100
##       82.14% bar_300
##       80.35% OTROS_200
##       80.30% ATROPELLADO_200
##       79.30% PER_ATRAPADO_DESBARRANCADO_200
##       79.04% crossing
##       78.42% metro_300
##       77.18% VEH_DESBARRANCADO_100
##       77.02% restaurant_300
##       76.01% hospital_300
##       75.07% VEH_ATRAPADO_200
##       74.58% ACC_PRENSADO_200
##       74.09% school
##       73.42% crossing_300
##       73.18% school_300
##       72.29% ACC_FATAL_200
##       72.27% ACC_FATAL_100
##       70.94% MOTOCICLISTA_200
##       70.09% traffic_signals_300
##       68.63% rtp_300
##       66.51% VEH_DESBARRANCADO_200
##       65.12% VOLCADURA_200
##       62.94% ACC_PRENSADO_100
##       58.38% university
##       53.65% hospital
##       50.32% cetram
##       44.92% FERROVIARIO_200
##       28.43% attraction
##       11.96% museum
```

```
##     10.39% cinema
##      9.75% speed_camera_300
##      6.22% theatre
##
##
## Time: 153.9 secs
```

Vemos la importancia de las variales predictoras y las graficamos

```
importancia_usage <- C5imp(tree_100_C50, metric = "usage")
importancia_usage <- importancia_usage %>%
  rownames_to_column(var = "predictor")
importancia_usage
```

```
##                              predictor Overall
## 1                       cruce_peligroso  100.00
## 2                          interseccion  100.00
## 3                        traffic_signals  100.00
## 4                       ACC_C_LESION_100  100.00
## 5                       ACC_S_LESION_100  100.00
## 6                       ACC_S_LESION_200  100.00
## 7                                    rtp   99.96
## 8                               trolebus   99.84
## 9   PER_ATRAPADO_DESBARRANCADO_100   99.75
## 10                             hotel_300   99.44
## 11                        MOTOCICLISTA_100   99.41
## 12                                  bank   99.30
## 13                          nightclub_300   99.30
## 14                                 hotel   99.06
## 15                                   bar   99.05
## 16                           supermarket   98.99
## 17               ATROPELLADO_FATAL_100   98.87
## 18                        turning_circle   97.79
## 19                              metrobus   97.68
## 20                      ATROPELLADO_100   97.53
## 21                                 metro   97.11
## 22                          kindergarten   96.58
## 23                        VOLCADURA_100   94.33
## 24                    ACC_C_LESION_200   93.46
## 25               ATROPELLADO_FATAL_200   87.69
## 26                            OTROS_100   87.55
```

```
## 27                     restaurant   83.32
## 28               VEH_ATRAPADO_100   82.99
## 29                        bar_300   82.14
## 30                      OTROS_200   80.35
## 31                 ATROPELLADO_200   80.30
## 32 PER_ATRAPADO_DESBARRANCADO_200   79.30
## 33                       crossing   79.04
## 34                      metro_300   78.42
## 35           VEH_DESBARRANCADO_100   77.18
## 36                 restaurant_300   77.02
## 37                   hospital_300   76.01
## 38               VEH_ATRAPADO_200   75.07
## 39                ACC_PRENSADO_200   74.58
## 40                         school   74.09
## 41                   crossing_300   73.42
## 42                     school_300   73.18
## 43                   ACC_FATAL_200   72.29
## 44                   ACC_FATAL_100   72.27
## 45               MOTOCICLISTA_200   70.94
## 46             traffic_signals_300   70.09
## 47                        rtp_300   68.63
## 48           VEH_DESBARRANCADO_200   66.51
## 49                   VOLCADURA_200   65.12
## 50                ACC_PRENSADO_100   62.94
## 51                     university   58.38
## 52                       hospital   53.65
## 53                         cetram   50.32
## 54                 FERROVIARIO_200   44.92
## 55                     attraction   28.43
## 56                         museum   11.96
## 57                         cinema   10.39
## 58               speed_camera_300    9.75
## 59                        theatre    6.22
## 60                        college    0.00
## 61                           mall    0.00
## 62               mini_roundabout    0.00
## 63                      nightclub    0.00
## 64                           park    0.00
## 65                            pub    0.00
## 66                   speed_camera    0.00
## 67                 FERROVIARIO_100    0.00
```

Graficamos por division

```
importancia_splits <- C5imp(tree_100_C50, metric = "splits")
importancia_splits <- importancia_splits %>%
  rownames_to_column(var = "predictor")
importancia_splits
```

```
##                                    predictor     Overall
## 1                         ACC_S_LESION_100  6.17339991
## 2                              interseccion  4.31230141
## 3                          ATROPELLADO_100  4.13073082
## 4                         ACC_C_LESION_100  4.03994553
## 5                         ACC_S_LESION_200  3.44984113
## 6                          MOTOCICLISTA_100  3.35905583
## 7                            restaurant_300  3.17748525
## 8                         ACC_C_LESION_200  3.13209260
## 9                          MOTOCICLISTA_200  3.08669995
## 10                            VOLCADURA_100  3.08669995
## 11                       traffic_signals_300  2.81434408
## 12 PER_ATRAPADO_DESBARRANCADO_100  2.76895143
## 13                         ATROPELLADO_200  2.40581026
## 14                              hospital_300  2.36041761
## 15                                   rtp_300  2.36041761
## 16            ATROPELLADO_FATAL_100  2.31502497
## 17                               school_300  2.31502497
## 18                                  bar_300  2.26963232
## 19                           crossing_300  2.26963232
## 20 PER_ATRAPADO_DESBARRANCADO_200  2.26963232
## 21                               OTROS_200  2.17884703
## 22                           VOLCADURA_200  2.13345438
## 23                                      rtp  2.08806173
## 24            VEH_ATRAPADO_200  2.04266909
## 25                              hotel_300  1.99727644
## 26                         ACC_FATAL_200  1.95188379
## 27                             metro_300  1.90649115
## 28            VEH_ATRAPADO_100  1.81570586
## 29            ACC_PRENSADO_200  1.77031321
## 30         ATROPELLADO_FATAL_200  1.77031321
## 31                     ACC_FATAL_100  1.45256468
## 32                            OTROS_100  1.40717204
## 33      VEH_DESBARRANCADO_200  1.36177939
```

```
## 34                    restaurant 1.27099410
## 35                traffic_signals 1.18020881
## 36        VEH_DESBARRANCADO_100 1.18020881
## 37                cruce_peligroso 0.90785293
## 38                         school 0.90785293
## 39                       trolebus 0.90785293
## 40                       metrobus 0.86246028
## 41                           bank 0.81706764
## 42                    supermarket 0.81706764
## 43                       crossing 0.77167499
## 44                  nightclub_300 0.77167499
## 45              ACC_PRENSADO_100 0.68088970
## 46                          metro 0.54471176
## 47                 turning_circle 0.45392646
## 48                            bar 0.40853382
## 49                          hotel 0.40853382
## 50              FERROVIARIO_200 0.36314117
## 51                     attraction 0.13617794
## 52                   kindergarten 0.13617794
## 53                         cetram 0.09078529
## 54                         cinema 0.09078529
## 55                       hospital 0.09078529
## 56                     university 0.09078529
## 57                         museum 0.04539265
## 58              speed_camera_300 0.04539265
## 59                        theatre 0.04539265
## 60                        college 0.00000000
## 61                           mall 0.00000000
## 62               mini_roundabout 0.00000000
## 63                      nightclub 0.00000000
## 64                           park 0.00000000
## 65                            pub 0.00000000
## 66                   speed_camera 0.00000000
## 67              FERROVIARIO_100 0.00000000
```

Corremos el modelo para la generación de las reglas de clasificación

```
set.seed(123)



ctrl = C5.0Control(bands = 10)
rules_100_C50 <- C5.0(SINIESTRO~.,data = train100, trials = 30,  rul
es = TRUE, control = ctrl)
rules_100_C50
```

```
##
## Call:
## C5.0.formula(formula = SINIESTRO ~ ., data = train100, trials = 3
0,
##  rules = TRUE, control = ctrl)
##
## Rule-Based Model
## Number of samples: 94510
## Number of predictors: 67
##
## Number of boosting iterations: 30
## Average number of rules: 29.7
##
## Non-standard options: attempt to group attributes, 10 utility ban
ds
```

```
summary(rules_100_C50)
```

```
##
## Call:
## C5.0.formula(formula = SINIESTRO ~ ., data = train100, trials = 3
0,
##  rules = TRUE, control = ctrl)
##
##
## C5.0 [Release 2.07 GPL Edition]       Tue Apr 14 14:00:44 2020
## -------------------------------
##     **  Warning (-u): rule ordering has no effect on boosting
##
## Class specified by attribute `outcome'
##
```

```
## Read 94510 cases (68 attributes) from undefined.data
##
## -----  Trial 0:  -----
##
## Rules:
##
## Rule 0/1: (47448/5459, lift 1.4)
##   cruce_peligroso <= 0
##   interseccion <= 0
##   metro <= 0
##   metrobus <= 0
##   traffic_signals <= 0
##   ->  class NO  [0.885]
##
## Rule 0/2: (46858/15639, lift 1.7)
##   interseccion > 0
##   ->  class SI  [0.666]
##
## Rule 0/3: (28706/1052, lift 1.6)
##   rtp <= 0
##   ACC_C_LESION_100 <= 1
##   ACC_S_LESION_100 <= 1
##   ->  class NO  [0.963]
##
## Rule 0/4: (32956/2444, lift 1.5)
##   hospital_300 <= 0
##   interseccion <= 2
##   restaurant <= 0
##   rtp <= 0
##   traffic_signals <= 0
##   ACC_C_LESION_100 <= 4
##   ACC_S_LESION_100 <= 7
##   ATROPELLADO_FATAL_200 <= 1
##   OTROS_200 <= 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   VEH_ATRAPADO_100 <= 0
##   ->  class NO  [0.926]
##
## Rule 0/5: (29717/1478, lift 1.6)
##   rtp <= 0
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_100 <= 4
```

```
##   ATROPELLADO_100 <= 2
##  ->  class NO  [0.950]
##
## Rule 0/6: (2260/220, lift 2.3)
##  rtp > 0
##  ACC_S_LESION_100 > 30
##  ->  class SI  [0.902]
##
## Rule 0/7: (226/20, lift 2.3)
##  metrobus > 0
##  ->  class SI  [0.908]
##
## Rule 0/8: (682/17, lift 2.5)
##  traffic_signals > 0
##  ->  class SI  [0.974]
##
## Rule 0/9: (174/23, lift 2.2)
##  metro > 0
##  ->  class SI  [0.864]
##
## Rule 0/10: (5134/711, lift 2.2)
##  interseccion > 2
##  ACC_S_LESION_100 > 1
##  PER_ATRAPADO_DESBARRANCADO_200 > 0
##  ->  class SI  [0.861]
##
## Rule 0/11: (25225/490, lift 1.6)
##  ACC_S_LESION_100 <= 0
##  ->  class NO  [0.981]
##
## Rule 0/12: (367/30, lift 2.4)
##  rtp_300 > 0
##  trolebus > 0
##  ATROPELLADO_200 > 13
##  ->  class SI  [0.916]
##
## Rule 0/13: (27262/807, lift 1.6)
##  rtp <= 0
##  ACC_S_LESION_100 <= 1
##  ATROPELLADO_100 <= 0
##  ->  class NO  [0.970]
##
```

```
## Rule 0/14: (98/18, lift 1.3)
##   hospital_300 <= 0
##   interseccion <= 2
##   ACC_C_LESION_100 <= 4
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_100 <= 8
##   ATROPELLADO_FATAL_200 > 1
##   OTROS_200 <= 1
##   -> class NO  [0.810]
##
## Rule 0/15: (31140/1623, lift 1.6)
##   interseccion <= 2
##   rtp <= 0
##   ACC_C_LESION_100 <= 1
##   ACC_S_LESION_100 <= 4
##   -> class NO  [0.948]
##
## Rule 0/16: (424/12, lift 2.5)
##   cruce_peligroso > 0
##   -> class SI  [0.969]
##
## Rule 0/17: (94/16, lift 1.3)
##   interseccion <= 2
##   rtp <= 0
##   ACC_C_LESION_100 > 4
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_100 <= 8
##   ATROPELLADO_100 <= 21
##   MOTOCICLISTA_100 > 2
##   VEH_ATRAPADO_100 <= 0
##   -> class NO  [0.823]
##
## Rule 0/18: (44/2, lift 2.4)
##   bar > 0
##   nightclub_300 > 0
##   -> class SI  [0.935]
##
## Rule 0/19: (5784/740, lift 2.2)
##   interseccion > 2
##   ACC_S_LESION_100 > 1
##   VOLCADURA_200 > 2
##   -> class SI  [0.872]
```

```
##
## Rule 0/20: (352/29, lift 2.3)
##    rtp > 0
##    PER_ATRAPADO_DESBARRANCADO_100 > 1
##    -> class SI  [0.915]
##
## Default class: NO
##
## -----  Trial 1:  -----
##
## Rules:
##
## Rule 1/1: (59066.9/17525.8, lift 1.2)
##    ATROPELLADO_100 <= 4
##    -> class NO  [0.703]
##
## Rule 1/2: (73746.9/35925.6, lift 1.2)
##    ACC_S_LESION_100 > 0
##    -> class SI  [0.513]
##
## Rule 1/3: (37729.7/7197.9, lift 1.4)
##    bank <= 0
##    bar <= 0
##    bar_300 <= 6
##    crossing <= 0
##    cruce_peligroso <= 0
##    hotel <= 0
##    interseccion <= 0
##    restaurant <= 0
##    supermarket <= 0
##    traffic_signals <= 0
##    ACC_FATAL_100 <= 1
##    ATROPELLADO_FATAL_100 <= 1
##    MOTOCICLISTA_100 <= 5
##    PER_ATRAPADO_DESBARRANCADO_100 <= 1
##    VEH_DESBARRANCADO_200 <= 0
##    VOLCADURA_100 <= 4
##    -> class NO  [0.809]
##
## Rule 1/4: (5906.6/2460.1, lift 1.4)
##    interseccion > 0
##    interseccion <= 2
```

```
##   restaurant_300 <= 18
##   rtp <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 7
##   ATROPELLADO_FATAL_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_100 <= 5
##   -> class SI  [0.583]
##
## Rule 1/5: (17394/4743.5, lift 1.8)
##   interseccion > 0
##   ACC_S_LESION_100 > 18
##   ACC_S_LESION_200 > 58
##   VEH_DESBARRANCADO_200 <= 1
##   -> class SI  [0.727]
##
## Rule 1/6: (10827.9/3370.1, lift 1.7)
##   interseccion > 0
##   rtp_300 <= 2
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_200 > 11
##   VEH_DESBARRANCADO_200 <= 0
##   -> class SI  [0.689]
##
## Rule 1/7: (3516.4/1367.6, lift 1.5)
##   interseccion > 0
##   interseccion <= 2
##   rtp <= 0
##   rtp_300 <= 2
##   traffic_signals_300 <= 2
##   ACC_C_LESION_100 <= 4
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 7
##   ATROPELLADO_FATAL_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_100 <= 5
##   -> class SI  [0.611]
##
## Rule 1/8: (44498.9/10385.7, lift 1.3)
```

```
##   bank <= 0
##   bar_300 <= 0
##   cruce_peligroso <= 0
##   interseccion <= 2
##   metrobus <= 0
##   restaurant <= 0
##   rtp <= 0
##   supermarket <= 0
##   traffic_signals <= 0
##   ACC_S_LESION_200 <= 58
##   VEH_DESBARRANCADO_200 <= 1
##   ->  class NO  [0.767]
##
## Rule 1/9: (2533.2/383.9, lift 2.1)
##   interseccion > 0
##   rtp > 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.848]
##
## Rule 1/10: (9041.9/1897.4, lift 1.9)
##   interseccion > 2
##   ACC_S_LESION_100 > 18
##   ->  class SI  [0.790]
##
## Rule 1/11: (226.9/80.7, lift 1.6)
##   interseccion > 0
##   metro_300 <= 0
##   restaurant_300 <= 18
##   rtp_300 <= 2
##   traffic_signals_300 > 2
##   ACC_PRENSADO_200 <= 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_200 <= 11
##   MOTOCICLISTA_200 <= 3
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   ->  class SI  [0.643]
##
## Rule 1/12: (174.8/67.8, lift 1.5)
##   interseccion > 0
##   restaurant_300 <= 18
##   rtp <= 0
##   rtp_300 > 2
```

```
##   school_300 > 2
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 18
##   ATROPELLADO_100 <= 4
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   ->  class SI  [0.611]
##
## Rule 1/13: (36066.2/6438.4, lift 1.4)
##   bank <= 0
##   bar <= 0
##   bar_300 <= 6
##   crossing <= 0
##   hotel <= 0
##   interseccion <= 0
##   restaurant <= 0
##   supermarket <= 0
##   traffic_signals <= 0
##   ACC_S_LESION_100 <= 53
##   ATROPELLADO_FATAL_100 <= 1
##   MOTOCICLISTA_100 <= 5
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   VEH_DESBARRANCADO_200 <= 0
##   ->  class NO  [0.821]
##
## Rule 1/14: (157.3/62.2, lift 1.5)
##   interseccion > 0
##   rtp <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 18
##   ATROPELLADO_100 <= 4
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   VEH_DESBARRANCADO_100 > 0
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_100 <= 5
##   ->  class SI  [0.603]
##
## Rule 1/15: (3888.3/1120.8, lift 1.7)
##   ACC_S_LESION_100 > 24
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   ->  class SI  [0.712]
##
## Rule 1/16: (334.4/90, lift 1.8)
```

```
##   interseccion > 0
##   ACC_PRENSADO_200 > 1
##   ACC_S_LESION_100 > 0
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_100 <= 5
##   -> class SI  [0.730]
##
## Rule 1/17: (251.2/53.7, lift 1.9)
##   supermarket > 0
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.784]
##
## Rule 1/18: (180.2/35, lift 2.0)
##   interseccion > 0
##   school > 0
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.803]
##
## Rule 1/19: (151.6/58.6, lift 1.5)
##   interseccion > 0
##   rtp_300 <= 2
##   ACC_FATAL_100 > 0
##   ACC_PRENSADO_200 <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 18
##   ATROPELLADO_100 <= 4
##   MOTOCICLISTA_200 <= 3
##   VEH_DESBARRANCADO_200 <= 0
##   VOLCADURA_100 <= 5
##   -> class SI  [0.612]
##
## Rule 1/20: (189.5/56.6, lift 1.2)
##   interseccion <= 2
##   rtp <= 0
##   VEH_DESBARRANCADO_200 > 1
##   -> class NO  [0.699]
##
## Rule 1/21: (1131/215.1, lift 2.0)
##   restaurant > 0
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.809]
##
```

```
## Rule 1/22: (2188/681, lift 1.7)
##   bar_300 <= 6
##   ACC_S_LESION_100 > 24
##   ATROPELLADO_FATAL_100 > 1
##   -> class SI  [0.689]
##
## Rule 1/23: (108.9/27.7, lift 1.8)
##   bar <= 0
##   interseccion > 0
##   metro_300 > 0
##   rtp_300 <= 2
##   school <= 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 <= 4
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   -> class SI  [0.741]
##
## Rule 1/24: (178.9/79.2, lift 1.4)
##   interseccion <= 0
##   ACC_S_LESION_100 > 24
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   VEH_DESBARRANCADO_200 > 0
##   -> class SI  [0.557]
##
## Rule 1/25: (170.2/30, lift 2.0)
##   hotel > 0
##   -> class SI  [0.820]
##
## Rule 1/26: (179.4/51.2, lift 1.2)
##   interseccion > 0
##   rtp <= 0
##   ACC_S_LESION_100 <= 18
##   VOLCADURA_100 > 5
##   -> class NO  [0.712]
##
## Rule 1/27: (169.5/44.9, lift 1.2)
##   rtp <= 0
##   ACC_S_LESION_100 <= 18
##   VEH_DESBARRANCADO_200 > 1
##   -> class NO  [0.732]
##
## Rule 1/28: (247.6/20.9, lift 2.2)
```

```
##    bank > 0
##    interseccion > 0
##    -> class SI  [0.912]
##
## Rule 1/29: (567.1/34.2, lift 2.3)
##    traffic_signals > 0
##    -> class SI  [0.938]
##
## Default class: SI
##
## -----  Trial 2:  -----
##
## Rules:
##
## Rule 2/1: (76451.8/36444.3, lift 1.2)
##    ACC_S_LESION_100 > 0
##    -> class SI  [0.523]
##
## Rule 2/2: (41792.9/11827.7, lift 1.3)
##    cruce_peligroso <= 0
##    interseccion <= 0
##    nightclub_300 <= 0
##    school <= 0
##    traffic_signals <= 0
##    PER_ATRAPADO_DESBARRANCADO_100 <= 7
##    -> class NO  [0.717]
##
## Rule 2/3: (18058.2/1228.2, lift 1.7)
##    ACC_S_LESION_100 <= 0
##    -> class NO  [0.932]
##
## Rule 2/4: (19491.9/1970, lift 1.6)
##    bar_300 <= 0
##    crossing <= 2
##    interseccion <= 2
##    metro_300 <= 0
##    restaurant <= 0
##    rtp <= 0
##    rtp_300 <= 2
##    school <= 0
##    traffic_signals <= 0
##    ACC_FATAL_200 <= 1
```

```
##    ACC_S_LESION_100 <= 2
##    ACC_S_LESION_200 <= 60
##    ATROPELLADO_FATAL_200 <= 2
##    VEH_ATRAPADO_200 <= 2
##    VOLCADURA_100 <= 5
##    ->  class NO  [0.899]
##
## Rule 2/5: (5253.1/2033.3, lift 1.4)
##    hotel_300 <= 4
##    traffic_signals_300 <= 16
##    ACC_S_LESION_100 > 11
##    ATROPELLADO_200 > 44
##    MOTOCICLISTA_100 <= 5
##    PER_ATRAPADO_DESBARRANCADO_100 <= 1
##    ->  class SI  [0.613]
##
## Rule 2/6: (9397.1/3898.7, lift 1.3)
##    traffic_signals_300 <= 16
##    turning_circle <= 0
##    ACC_S_LESION_100 > 11
##    ATROPELLADO_FATAL_100 <= 1
##    MOTOCICLISTA_100 > 2
##    MOTOCICLISTA_100 <= 5
##    ->  class SI  [0.585]
##
## Rule 2/7: (770.8/294, lift 1.4)
##    crossing_300 > 2
##    traffic_signals_300 <= 16
##    turning_circle <= 0
##    ACC_S_LESION_100 > 24
##    ATROPELLADO_100 <= 20
##    MOTOCICLISTA_100 <= 2
##    PER_ATRAPADO_DESBARRANCADO_100 <= 1
##    ->  class SI  [0.618]
##
## Rule 2/8: (1872/445.4, lift 1.7)
##    nightclub_300 <= 0
##    rtp > 0
##    traffic_signals_300 <= 16
##    turning_circle <= 0
##    ACC_S_LESION_100 > 11
##    MOTOCICLISTA_100 <= 5
```

```
##   ->  class SI  [0.762]
##
## Rule 2/9: (259/106.8, lift 1.3)
##   crossing_300 <= 2
##   interseccion <= 0
##   traffic_signals_300 <= 16
##   turning_circle <= 0
##   ACC_FATAL_100 > 0
##   ACC_S_LESION_100 > 24
##   ACC_S_LESION_100 <= 93
##   ATROPELLADO_200 <= 44
##   MOTOCICLISTA_100 <= 2
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   ->  class SI  [0.587]
##
## Rule 2/10: (208.8/50.3, lift 1.7)
##   cruce_peligroso <= 0
##   hotel_300 > 4
##   nightclub_300 <= 0
##   school <= 0
##   traffic_signals_300 <= 16
##   ACC_S_LESION_100 > 11
##   MOTOCICLISTA_100 <= 2
##   PER_ATRAPADO_DESBARRANCADO_100 <= 7
##   ->  class SI  [0.757]
##
## Rule 2/11: (119.2/41.4, lift 1.5)
##   interseccion <= 0
##   ACC_S_LESION_100 > 11
##   ACC_S_LESION_100 <= 24
##   ATROPELLADO_200 <= 44
##   ATROPELLADO_FATAL_200 <= 2
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   VOLCADURA_200 > 15
##   ->  class SI  [0.650]
##
## Rule 2/12: (127.3/50.3, lift 1.4)
##   interseccion <= 0
##   ACC_C_LESION_200 <= 109
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_100 <= 11
##   VOLCADURA_200 > 14
```

```
##    ->  class SI  [0.603]
##
## Rule 2/13: (222.2/100.9, lift 1.3)
##    interseccion <= 0
##    ACC_S_LESION_100 <= 24
##    ATROPELLADO_FATAL_200 > 2
##    ->  class SI  [0.545]
##
## Rule 2/14: (59.9/19.7, lift 1.5)
##    interseccion <= 0
##    nightclub_300 <= 0
##    ACC_C_LESION_200 > 109
##    ACC_S_LESION_100 > 4
##    ACC_S_LESION_100 <= 11
##    ->  class SI  [0.666]
##
## Rule 2/15: (93.7/16, lift 1.9)
##    crossing > 2
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.822]
##
## Default class: NO
##
## -----  Trial 3:  -----
##
## Rules:
##
## Rule 3/1: (94062.1/38810.2, lift 1.0)
##    traffic_signals <= 0
##    ->  class NO  [0.587]
##
## Rule 3/2: (4647.3/1279.3, lift 1.7)
##    interseccion > 2
##    ACC_C_LESION_100 > 12
##    VEH_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.725]
##
## Rule 3/3: (8055.1/3092.8, lift 1.5)
##    interseccion > 2
##    rtp_300 <= 4
##    turning_circle <= 0
##    ACC_S_LESION_100 > 7
```

```
##   ->  class SI  [0.616]
##
## Rule 3/4: (3044.6/996.8, lift 1.6)
##   rtp > 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.672]
##
## Rule 3/5: (1379.4/327.1, lift 1.8)
##   bar_300 > 0
##   interseccion > 0
##   restaurant_300 > 0
##   supermarket <= 0
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.763]
##
## Rule 3/6: (1451.4/569.9, lift 1.5)
##   interseccion > 2
##   rtp_300 > 4
##   supermarket <= 0
##   turning_circle <= 0
##   ACC_S_LESION_100 > 7
##   ATROPELLADO_100 <= 3
##   ATROPELLADO_FATAL_100 <= 0
##   VEH_ATRAPADO_100 <= 1
##   VOLCADURA_100 <= 1
##   ->  class SI  [0.607]
##
## Rule 3/7: (1318/324.7, lift 1.8)
##   hotel_300 > 0
##   interseccion > 0
##   restaurant_300 > 0
##   ACC_C_LESION_100 > 0
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_FATAL_200 <= 2
##   VOLCADURA_100 <= 16
##   ->  class SI  [0.753]
##
## Rule 3/8: (1301.8/468.3, lift 1.5)
##   crossing <= 2
##   nightclub_300 <= 2
```

```
##    ATROPELLADO_200 > 114
##    -> class SI  [0.640]
##
## Rule 3/9: (521.3/207.8, lift 1.4)
##    bank <= 0
##    crossing_300 <= 0
##    interseccion <= 2
##    supermarket <= 0
##    turning_circle <= 0
##    ACC_C_LESION_100 > 0
##    ACC_S_LESION_100 > 17
##    ATROPELLADO_200 <= 3
##    MOTOCICLISTA_100 <= 2
##    OTROS_200 <= 3
##    PER_ATRAPADO_DESBARRANCADO_200 <= 4
##    VEH_ATRAPADO_200 <= 2
##    -> class SI  [0.601]
##
## Rule 3/10: (1258.9/314.3, lift 1.8)
##    interseccion > 0
##    restaurant_300 > 12
##    turning_circle <= 0
##    ACC_C_LESION_100 > 0
##    ACC_S_LESION_100 > 0
##    VOLCADURA_100 <= 16
##    -> class SI  [0.750]
##
## Rule 3/11: (15939.3/7299.1, lift 1.3)
##    restaurant_300 > 0
##    turning_circle <= 0
##    ACC_C_LESION_100 > 0
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 0
##    -> class SI  [0.542]
##
## Rule 3/12: (649.1/265.5, lift 1.4)
##    crossing_300 > 0
##    crossing_300 <= 2
##    restaurant_300 <= 0
##    school <= 0
##    supermarket <= 0
##    turning_circle <= 0
```

```
##    ACC_C_LESION_100 > 0
##    ACC_PRENSADO_100 <= 1
##    ACC_S_LESION_100 > 0
##    ATROPELLADO_FATAL_200 <= 2
##    MOTOCICLISTA_100 <= 2
##    ->  class SI  [0.591]
##
## Rule 3/13: (1034.3/466.8, lift 1.3)
##    hotel_300 <= 4
##    interseccion > 0
##    interseccion <= 2
##    restaurant_300 > 0
##    restaurant_300 <= 12
##    traffic_signals <= 0
##    turning_circle <= 0
##    ACC_C_LESION_100 > 0
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 0
##    ATROPELLADO_200 <= 13
##    VOLCADURA_100 <= 7
##    ->  class SI  [0.549]
##
## Rule 3/14: (1047.9/397.2, lift 1.5)
##    hotel <= 0
##    hotel_300 <= 4
##    supermarket <= 0
##    ACC_FATAL_200 <= 5
##    ACC_S_LESION_100 > 0
##    ACC_S_LESION_200 > 474
##    ->  class SI  [0.621]
##
## Rule 3/15: (447.9/49.4, lift 2.1)
##    traffic_signals > 0
##    ->  class SI  [0.888]
##
## Rule 3/16: (378.1/115.7, lift 1.7)
##    bank > 0
##    supermarket <= 0
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.693]
##
## Rule 3/17: (22517.9/3880.5, lift 1.4)
```

```
##    hospital_300 <= 0
##    ACC_C_LESION_100 <= 0
##    ACC_S_LESION_100 <= 7
##    ATROPELLADO_200 <= 16
##    ->  class NO  [0.828]
##
## Rule 3/18: (299.8/70.5, lift 1.8)
##    bar_300 <= 0
##    crossing_300 <= 4
##    interseccion > 2
##    rtp_300 > 4
##    ACC_S_LESION_100 > 7
##    ATROPELLADO_FATAL_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_200 > 1
##    VOLCADURA_100 <= 1
##    ->  class SI  [0.763]
##
## Rule 3/19: (240.6/81.4, lift 1.6)
##    metrobus <= 0
##    supermarket > 0
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.660]
##
## Rule 3/20: (180.1/37.8, lift 1.9)
##    hotel_300 <= 4
##    interseccion > 0
##    nightclub_300 <= 2
##    restaurant_300 > 0
##    ACC_C_LESION_100 > 68
##    ATROPELLADO_200 <= 114
##    ATROPELLADO_FATAL_200 <= 2
##    VOLCADURA_100 <= 7
##    ->  class SI  [0.787]
##
## Rule 3/21: (70.8/21.6, lift 1.7)
##    bank <= 0
##    hotel_300 <= 4
##    interseccion <= 2
##    restaurant_300 > 0
##    rtp <= 0
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_200 <= 474
```

```
## VOLCADURA_100 > 16
## -> class SI [0.690]
##
## Rule 3/22: (52/14.6, lift 1.7)
## interseccion > 2
## ACC_S_LESION_100 > 0
## ACC_S_LESION_100 <= 7
## ACC_S_LESION_200 <= 89
## ATROPELLADO_200 <= 16
## ATROPELLADO_FATAL_200 <= 1
## MOTOCICLISTA_200 > 6
## -> class SI [0.711]
##
## Rule 3/23: (138.4/52.8, lift 1.5)
## restaurant_300 <= 0
## ACC_C_LESION_100 > 0
## ACC_C_LESION_100 <= 31
## ATROPELLADO_200 <= 18
## MOTOCICLISTA_100 <= 2
## VEH_ATRAPADO_200 > 2
## -> class SI [0.617]
##
## Rule 3/24: (153.1/57, lift 1.5)
## restaurant_300 <= 0
## ACC_C_LESION_100 > 31
## ACC_PRENSADO_100 <= 1
## ATROPELLADO_200 <= 18
## ATROPELLADO_FATAL_200 <= 2
## MOTOCICLISTA_100 <= 2
## -> class SI [0.626]
##
## Rule 3/25: (281.8/33.3, lift 2.1)
## cruce_peligroso > 0
## -> class SI [0.879]
##
## Rule 3/26: (1006.3/268.3, lift 1.8)
## interseccion > 2
## rtp_300 > 4
## ACC_S_LESION_100 > 7
## OTROS_100 > 0
## VEH_ATRAPADO_100 <= 1
## -> class SI [0.733]
```

```
##
## Rule 3/27: (45.7/8.3, lift 1.9)
##    restaurant_300 <= 0
##    school_300 > 8
##    ACC_C_LESION_100 > 0
##    -> class SI  [0.804]
##
## Rule 3/28: (48.8/12.7, lift 1.8)
##    kindergarten > 0
##    -> class SI  [0.731]
##
## Rule 3/29: (67.5/23.9, lift 1.5)
##    ACC_S_LESION_100 <= 0
##    ACC_S_LESION_200 > 0
##    VEH_ATRAPADO_100 > 0
##    -> class SI  [0.642]
##
## Rule 3/30: (36.5/12.6, lift 1.6)
##    interseccion <= 2
##    MOTOCICLISTA_100 <= 2
##    VEH_DESBARRANCADO_100 > 1
##    -> class SI  [0.648]
##
## Rule 3/31: (53.8/11.1, lift 1.9)
##    crossing > 2
##    interseccion <= 2
##    ACC_S_LESION_100 > 0
##    -> class SI  [0.783]
##
## Rule 3/32: (39.4/9.6, lift 1.8)
##    hotel_300 <= 4
##    rtp <= 0
##    ACC_C_LESION_100 > 0
##    ACC_FATAL_200 > 5
##    ATROPELLADO_200 <= 114
##    -> class SI  [0.743]
##
## Rule 3/33: (185.3/46.4, lift 1.8)
##    metrobus > 0
##    ACC_S_LESION_100 > 0
##    -> class SI  [0.747]
##
```

```
## Rule 3/34: (103.4/29, lift 1.7)
##   metrobus <= 0
##   nightclub_300 > 2
##   rtp <= 0
##   -> class SI  [0.716]
##
## Default class: NO
##
## -----  Trial 4:  -----
##
## Rules:
##
## Rule 4/1: (84566.9/41775.1, lift 1.1)
##   ACC_S_LESION_200 > 0
##   -> class SI  [0.506]
##
## Rule 4/2: (43680.3/15603.3, lift 1.2)
##   bar_300 <= 0
##   hospital_300 <= 0
##   interseccion <= 4
##   rtp <= 0
##   school <= 0
##   ACC_C_LESION_100 <= 6
##   ACC_C_LESION_200 <= 73
##   ACC_PRENSADO_200 <= 0
##   ATROPELLADO_100 <= 20
##   OTROS_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   -> class NO  [0.643]
##
## Rule 4/3: (26551.6/7376.8, lift 1.3)
##   hotel_300 <= 4
##   interseccion <= 0
##   rtp <= 2
##   traffic_signals <= 0
##   trolebus <= 0
##   ACC_PRENSADO_100 <= 0
##   ATROPELLADO_FATAL_100 <= 0
##   MOTOCICLISTA_200 <= 35
##   VEH_ATRAPADO_200 <= 2
##   VOLCADURA_100 <= 0
```

```
##    ->  class NO  [0.722]
##
## Rule 4/4: (33690.9/14625.3, lift 1.2)
##    interseccion > 0
##    rtp_300 <= 10
##    turning_circle <= 0
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_200 > 4
##    ATROPELLADO_100 > 0
##    VEH_DESBARRANCADO_200 <= 0
##    VOLCADURA_100 <= 12
##    VOLCADURA_200 <= 35
##    ->  class SI  [0.566]
##
## Rule 4/5: (3447.3/1505.7, lift 1.2)
##    hotel_300 <= 4
##    interseccion <= 0
##    nightclub_300 <= 0
##    turning_circle <= 0
##    ACC_PRENSADO_100 <= 0
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 3
##    ATROPELLADO_200 <= 43
##    ATROPELLADO_FATAL_100 <= 0
##    MOTOCICLISTA_100 <= 2
##    MOTOCICLISTA_200 > 3
##    MOTOCICLISTA_200 <= 35
##    OTROS_100 <= 0
##    OTROS_200 <= 4
##    VEH_ATRAPADO_200 <= 2
##    VEH_DESBARRANCADO_200 <= 0
##    ->  class SI  [0.563]
##
## Rule 4/6: (842.6/341.6, lift 1.3)
##    hospital_300 <= 0
##    interseccion > 0
##    interseccion <= 4
##    rtp <= 2
##    supermarket <= 0
##    turning_circle <= 0
##    ACC_C_LESION_100 <= 6
##    ACC_C_LESION_200 <= 73
```

```
##   ACC_PRENSADO_200 <= 0
##   ACC_S_LESION_200 > 0
##   ATROPELLADO_100 <= 0
##   MOTOCICLISTA_100 <= 3
##   OTROS_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   VEH_ATRAPADO_100 <= 1
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_100 > 0
##   -> class SI  [0.594]
##
## Rule 4/7: (13027.4/607.9, lift 1.8)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_100 <= 0
##   ATROPELLADO_FATAL_100 <= 0
##   VEH_ATRAPADO_100 <= 0
##   -> class NO  [0.953]
##
## Rule 4/8: (1573.1/700.3, lift 1.2)
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 <= 0
##   -> class SI  [0.555]
##
## Rule 4/9: (779.1/309.6, lift 1.1)
##   interseccion <= 0
##   rtp > 0
##   rtp <= 2
##   trolebus <= 0
##   ACC_S_LESION_100 > 3
##   -> class NO  [0.602]
##
## Rule 4/10: (250.7/86.4, lift 1.4)
##   interseccion > 0
##   interseccion <= 4
##   rtp <= 0
##   turning_circle <= 0
##   ACC_C_LESION_100 <= 6
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_200 <= 2
##   ATROPELLADO_100 > 0
```

```
##    PER_ATRAPADO_DESBARRANCADO_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 1
##    ->  class SI  [0.654]
##
## Rule 4/11: (469.4/197.4, lift 1.3)
##    ACC_C_LESION_100 > 0
##    ACC_S_LESION_200 <= 0
##    ->  class SI  [0.579]
##
## Rule 4/12: (520/198.4, lift 1.3)
##    bar_300 <= 0
##    hospital_300 <= 0
##    interseccion <= 2
##    metro <= 0
##    rtp_300 <= 14
##    school <= 0
##    turning_circle <= 0
##    ACC_C_LESION_100 <= 6
##    ACC_FATAL_100 <= 0
##    ACC_FATAL_200 <= 1
##    ACC_PRENSADO_200 <= 0
##    ACC_S_LESION_100 > 2
##    ACC_S_LESION_200 > 4
##    ATROPELLADO_100 > 0
##    ATROPELLADO_FATAL_100 > 0
##    MOTOCICLISTA_100 <= 3
##    OTROS_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 1
##    VEH_DESBARRANCADO_200 <= 0
##    ->  class SI  [0.618]
##
## Rule 4/13: (4381.6/1948.2, lift 1.2)
##    interseccion <= 0
##    restaurant_300 <= 10
##    rtp <= 0
##    traffic_signals <= 0
##    turning_circle <= 0
##    ACC_C_LESION_100 > 1
##    ACC_PRENSADO_100 <= 0
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 0
##    ATROPELLADO_100 <= 21
```

```
##   ATROPELLADO_200 <= 110
##   ATROPELLADO_FATAL_100 <= 2
##   MOTOCICLISTA_100 <= 2
##   OTROS_200 <= 4
##   VEH_ATRAPADO_200 <= 2
##   VOLCADURA_100 > 0
##   -> class SI  [0.555]
##
## Rule 4/14: (227.9/83.6, lift 1.4)
##   hospital_300 > 0
##   interseccion <= 0
##   metro_300 <= 0
##   trolebus <= 0
##   ACC_C_LESION_100 <= 21
##   ACC_C_LESION_200 <= 43
##   ACC_S_LESION_100 > 3
##   MOTOCICLISTA_100 <= 0
##   MOTOCICLISTA_200 <= 3
##   OTROS_200 <= 0
##   VEH_ATRAPADO_200 <= 1
##   -> class SI  [0.632]
##
## Rule 4/15: (250.2/94.7, lift 1.1)
##   rtp <= 0
##   VEH_DESBARRANCADO_200 > 1
##   -> class NO  [0.621]
##
## Rule 4/16: (15198.8/1934.3, lift 1.6)
##   crossing_300 <= 2
##   interseccion <= 0
##   school_300 <= 6
##   trolebus <= 0
##   turning_circle <= 0
##   ACC_S_LESION_100 <= 3
##   MOTOCICLISTA_100 <= 1
##   -> class NO  [0.873]
##
## Rule 4/17: (428/183.2, lift 1.2)
##   hospital_300 <= 0
##   interseccion <= 0
##   nightclub_300 <= 0
##   rtp_300 > 8
```

```
##    ACC_C_LESION_200 <= 35
##    ACC_S_LESION_100 > 3
##    MOTOCICLISTA_100 <= 0
##    MOTOCICLISTA_200 <= 3
##    OTROS_200 <= 0
##    VEH_ATRAPADO_200 <= 1
##    VEH_DESBARRANCADO_200 <= 0
##    ->  class SI  [0.572]
##
## Rule 4/18: (277.8/117.6, lift 1.3)
##    interseccion <= 0
##    nightclub_300 <= 0
##    ACC_S_LESION_100 > 3
##    MOTOCICLISTA_100 <= 2
##    MOTOCICLISTA_200 <= 3
##    PER_ATRAPADO_DESBARRANCADO_200 > 2
##    VOLCADURA_100 <= 0
##    ->  class SI  [0.576]
##
## Rule 4/19: (107/40.3, lift 1.4)
##    ACC_S_LESION_100 <= 0
##    VEH_ATRAPADO_100 > 0
##    ->  class SI  [0.621]
##
## Rule 4/20: (35.9/5.9, lift 1.8)
##    interseccion <= 0
##    metro_300 <= 0
##    nightclub_300 <= 0
##    rtp <= 0
##    ACC_C_LESION_100 > 21
##    ACC_C_LESION_200 <= 43
##    ACC_PRENSADO_100 <= 0
##    ATROPELLADO_FATAL_100 <= 0
##    MOTOCICLISTA_100 <= 2
##    MOTOCICLISTA_200 <= 3
##    OTROS_200 <= 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 2
##    VOLCADURA_100 <= 0
##    ->  class SI  [0.819]
##
## Rule 4/21: (275.9/109.2, lift 1.3)
##    crossing_300 > 2
```

```
##   interseccion <= 0
##   turning_circle <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 3
##   ->  class SI  [0.603]
##
## Rule 4/22: (66.6/25, lift 1.4)
##   ACC_S_LESION_100 <= 0
##   ATROPELLADO_FATAL_100 > 0
##   ->  class SI  [0.621]
##
## Rule 4/23: (199.5/81.2, lift 1.3)
##   interseccion <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 3
##   MOTOCICLISTA_100 > 1
##   ->  class SI  [0.592]
##
## Rule 4/24: (94.9/23, lift 1.4)
##   turning_circle > 0
##   ->  class NO  [0.753]
##
## Rule 4/25: (228/103.2, lift 1.2)
##   ACC_S_LESION_200 <= 0
##   VOLCADURA_100 > 0
##   ->  class SI  [0.547]
##
## Rule 4/26: (409.1/54.4, lift 1.9)
##   traffic_signals > 0
##   ->  class SI  [0.865]
##
## Default class: NO
##
## -----  Trial 5:  -----
##
## Rules:
##
## Rule 5/1: (89990.7/38566.5, lift 1.0)
##   cruce_peligroso <= 0
##   restaurant <= 0
##   rtp <= 0
##   traffic_signals <= 0
```

```
## trolebus <= 0
## -> class NO [0.571]
##
## Rule 5/2: (50767.7/24708.4, lift 1.2)
## interseccion > 0
## ACC_S_LESION_100 > 0
## -> class SI [0.513]
##
## Rule 5/3: (3940.1/1377, lift 1.5)
## bar_300 <= 12
## interseccion > 0
## supermarket <= 0
## ACC_C_LESION_100 > 8
## ACC_C_LESION_200 > 73
## ACC_C_LESION_200 <= 178
## VEH_ATRAPADO_200 <= 4
## VOLCADURA_100 <= 12
## VOLCADURA_200 <= 35
## -> class SI [0.650]
##
## Rule 5/4: (2680.5/993.4, lift 1.4)
## rtp > 0
## ACC_C_LESION_200 > 4
## ACC_S_LESION_100 > 0
## -> class SI [0.629]
##
## Rule 5/5: (5951.4/2391.2, lift 1.4)
## crossing_300 <= 6
## interseccion > 0
## interseccion <= 10
## supermarket <= 0
## traffic_signals_300 <= 6
## ACC_C_LESION_100 > 13
## ACC_FATAL_200 <= 1
## ATROPELLADO_FATAL_100 <= 0
## ATROPELLADO_FATAL_200 <= 2
## VOLCADURA_100 <= 12
## VOLCADURA_200 <= 35
## -> class SI [0.598]
##
## Rule 5/6: (6149.3/2911.7, lift 1.2)
## crossing_300 <= 32
```

```
##    interseccion <= 0
##    restaurant_300 <= 4
##    rtp <= 0
##    traffic_signals_300 <= 0
##    trolebus <= 0
##    turning_circle <= 0
##    ACC_C_LESION_200 <= 49
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 4
##    ATROPELLADO_FATAL_100 <= 1
##    MOTOCICLISTA_100 <= 2
##    OTROS_100 <= 0
##    OTROS_200 <= 3
##    VEH_ATRAPADO_200 <= 2
##    VOLCADURA_100 <= 0
##    ->  class SI  [0.526]
##
## Rule 5/7: (3942.5/1779.6, lift 1.3)
##    crossing_300 <= 32
##    interseccion <= 0
##    restaurant_300 <= 4
##    rtp <= 0
##    traffic_signals_300 <= 0
##    trolebus <= 0
##    turning_circle <= 0
##    ACC_C_LESION_200 <= 49
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 4
##    ATROPELLADO_200 <= 14
##    ATROPELLADO_FATAL_100 <= 1
##    MOTOCICLISTA_100 <= 2
##    OTROS_100 <= 0
##    OTROS_200 <= 3
##    VEH_ATRAPADO_200 <= 2
##    VOLCADURA_100 <= 0
##    ->  class SI  [0.549]
##
## Rule 5/8: (3307.1/1482.1, lift 1.3)
##    bank <= 0
##    hotel_300 <= 0
##    interseccion > 0
##    interseccion <= 10
```

```
##   school <= 0
##   supermarket <= 0
##   traffic_signals_300 <= 6
##   ACC_C_LESION_100 <= 12
##   ACC_C_LESION_200 <= 73
##   ACC_FATAL_200 <= 1
##   ATROPELLADO_FATAL_100 <= 0
##   ATROPELLADO_FATAL_200 <= 2
##   MOTOCICLISTA_100 > 1
##   MOTOCICLISTA_100 <= 3
##   MOTOCICLISTA_200 <= 6
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   VEH_ATRAPADO_200 <= 2
##   VOLCADURA_200 <= 3
##   ->  class SI  [0.552]
##
## Rule 5/9: (3266.7/1382.2, lift 1.3)
##   crossing <= 0
##   hospital_300 <= 0
##   interseccion > 0
##   interseccion <= 6
##   traffic_signals_300 <= 6
##   ACC_C_LESION_100 > 3
##   ACC_C_LESION_200 > 21
##   ACC_S_LESION_100 <= 74
##   ATROPELLADO_100 > 0
##   ATROPELLADO_FATAL_100 <= 0
##   ATROPELLADO_FATAL_200 <= 2
##   MOTOCICLISTA_100 <= 1
##   MOTOCICLISTA_200 <= 6
##   OTROS_200 <= 1
##   VOLCADURA_100 <= 12
##   VOLCADURA_200 <= 35
##   ->  class SI  [0.577]
##
## Rule 5/10: (1030.4/366.4, lift 1.5)
##   restaurant > 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.644]
##
## Rule 5/11: (1538.3/646.2, lift 1.3)
##   interseccion > 0
```

```
##   restaurant <= 0
##   rtp <= 0
##   school <= 0
##   school_300 <= 6
##   traffic_signals_300 <= 0
##   ACC_C_LESION_100 <= 13
##   ACC_C_LESION_200 <= 73
##   ACC_FATAL_200 <= 1
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_FATAL_100 <= 0
##   MOTOCICLISTA_100 > 0
##   MOTOCICLISTA_200 <= 6
##   OTROS_100 <= 0
##   OTROS_200 <= 3
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   VOLCADURA_100 <= 3
##   ->  class SI  [0.580]
##
## Rule 5/12: (1721.9/781.2, lift 1.2)
##   bar_300 <= 0
##   interseccion > 0
##   interseccion <= 4
##   restaurant_300 <= 2
##   ACC_C_LESION_200 <= 21
##   ACC_FATAL_200 <= 0
##   ACC_S_LESION_100 > 13
##   ATROPELLADO_100 > 0
##   ATROPELLADO_FATAL_200 <= 0
##   MOTOCICLISTA_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 3
##   VEH_ATRAPADO_200 <= 2
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.546]
##
## Rule 5/13: (1842.6/829.6, lift 1.3)
##   bank <= 0
##   crossing <= 0
##   interseccion > 2
##   interseccion <= 4
##   rtp <= 0
##   school <= 0
```

```
##   school_300 <= 6
##   ACC_C_LESION_200 <= 73
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_FATAL_100 <= 0
##   ATROPELLADO_FATAL_200 <= 2
##   MOTOCICLISTA_200 <= 6
##   OTROS_100 <= 0
##   OTROS_200 <= 3
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   PER_ATRAPADO_DESBARRANCADO_200 <= 3
##   VEH_ATRAPADO_200 <= 2
##   VOLCADURA_100 <= 0
##   ->  class SI  [0.550]
##
## Rule 5/14: (1906.8/637, lift 1.5)
##   interseccion > 0
##   trolebus <= 0
##   ACC_S_LESION_100 > 0
##   PER_ATRAPADO_DESBARRANCADO_200 > 3
##   VOLCADURA_100 <= 12
##   VOLCADURA_200 <= 35
##   ->  class SI  [0.666]
##
## Rule 5/15: (2683.3/1233.5, lift 1.2)
##   bar_300 <= 0
##   interseccion > 4
##   interseccion <= 10
##   supermarket <= 0
##   traffic_signals_300 <= 6
##   ACC_C_LESION_100 <= 13
##   ACC_C_LESION_200 <= 21
##   ACC_FATAL_200 <= 0
##   ACC_S_LESION_200 > 0
##   ATROPELLADO_100 > 0
##   OTROS_200 <= 3
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 3
##   VEH_ATRAPADO_200 <= 2
##   ->  class SI  [0.540]
##
## Rule 5/16: (211.3/68.4, lift 1.2)
```

```
##   restaurant <= 0
##   rtp > 0
##   trolebus <= 0
##   ACC_C_LESION_200 <= 4
##   ACC_S_LESION_100 > 0
##   ->  class NO  [0.675]
##
## Rule 5/17: (1630.5/718.3, lift 1.3)
##   bar_300 <= 0
##   crossing <= 0
##   hospital_300 <= 0
##   interseccion > 0
##   interseccion <= 2
##   restaurant <= 0
##   rtp <= 0
##   school <= 0
##   traffic_signals_300 <= 4
##   trolebus <= 0
##   ACC_C_LESION_100 > 0
##   ACC_C_LESION_200 <= 73
##   ACC_FATAL_100 <= 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 <= 9
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_FATAL_100 <= 0
##   MOTOCICLISTA_100 <= 1
##   MOTOCICLISTA_200 <= 6
##   OTROS_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 3
##   VOLCADURA_100 <= 0
##   ->  class SI  [0.559]
##
## Rule 5/18: (365.5/137.5, lift 1.4)
##   crossing_300 <= 2
##   hospital_300 <= 0
##   interseccion > 0
##   interseccion <= 4
##   restaurant_300 <= 2
##   ACC_C_LESION_200 <= 21
##   ACC_FATAL_200 <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 7
```

```
##   ATROPELLADO_100 > 0
##   ATROPELLADO_200 > 13
##   ATROPELLADO_FATAL_200 <= 0
##   MOTOCICLISTA_100 <= 0
##   MOTOCICLISTA_200 <= 2
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   VEH_ATRAPADO_100 <= 1
##   ->  class SI  [0.623]
##
## Rule 5/19: (513.9/212.5, lift 1.3)
##   crossing_300 <= 32
##   interseccion <= 0
##   metro_300 <= 2
##   restaurant_300 <= 0
##   rtp <= 0
##   traffic_signals_300 > 2
##   ACC_C_LESION_200 <= 49
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_FATAL_100 <= 1
##   MOTOCICLISTA_100 <= 2
##   OTROS_100 <= 0
##   VOLCADURA_100 <= 0
##   ->  class SI  [0.586]
##
## Rule 5/20: (202.9/56.6, lift 1.6)
##   crossing_300 <= 2
##   interseccion > 0
##   interseccion <= 4
##   ACC_S_LESION_100 <= 1
##   ACC_S_LESION_200 > 0
##   ATROPELLADO_100 > 0
##   ATROPELLADO_FATAL_100 <= 0
##   MOTOCICLISTA_100 > 0
##   MOTOCICLISTA_200 <= 6
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.719]
##
## Rule 5/21: (444.7/172.7, lift 1.4)
##   hospital_300 <= 0
##   interseccion > 0
##   rtp <= 0
```

```
##   traffic_signals_300 <= 0
##   ACC_C_LESION_100 <= 13
##   ACC_C_LESION_200 <= 73
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 9
##   ATROPELLADO_100 <= 0
##   MOTOCICLISTA_100 <= 0
##   OTROS_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   VOLCADURA_100 <= 3
##   -> class SI  [0.611]
##
## Rule 5/22: (410/130, lift 1.6)
##   trolebus > 0
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.682]
##
## Rule 5/23: (674.3/292.8, lift 1.3)
##   crossing_300 <= 4
##   interseccion > 0
##   interseccion <= 4
##   rtp <= 0
##   school_300 <= 6
##   traffic_signals_300 <= 6
##   ACC_C_LESION_200 <= 21
##   ACC_FATAL_200 <= 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_FATAL_100 <= 0
##   ATROPELLADO_FATAL_200 > 0
##   ATROPELLADO_FATAL_200 <= 2
##   MOTOCICLISTA_100 <= 0
##   MOTOCICLISTA_200 <= 6
##   OTROS_200 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 12
##   -> class SI  [0.566]
##
## Rule 5/24: (96.7/13.8, lift 1.9)
##   bank <= 0
##   interseccion > 0
##   ACC_C_LESION_200 > 199
```

```
##   ATROPELLADO_FATAL_200 <= 7
##   VEH_ATRAPADO_200 <= 4
##   VOLCADURA_100 <= 12
##   VOLCADURA_200 <= 35
##   ->  class SI  [0.850]
##
## Rule 5/25: (2175.9/902.2, lift 1.3)
##   hospital_300 > 0
##   interseccion > 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_FATAL_200 <= 7
##   VOLCADURA_200 <= 35
##   ->  class SI  [0.585]
##
## Rule 5/26: (354/93.7, lift 1.7)
##   bar_300 <= 12
##   interseccion > 0
##   restaurant <= 0
##   rtp_300 > 0
##   ACC_C_LESION_200 > 140
##   ACC_C_LESION_200 <= 178
##   ATROPELLADO_FATAL_200 <= 7
##   VEH_ATRAPADO_200 <= 4
##   VOLCADURA_200 <= 35
##   ->  class SI  [0.734]
##
## Rule 5/27: (234.9/83.1, lift 1.5)
##   cruce_peligroso <= 0
##   hotel_300 > 4
##   MOTOCICLISTA_100 <= 2
##   VOLCADURA_100 <= 0
##   ->  class SI  [0.645]
##
## Rule 5/28: (201.8/74.2, lift 1.4)
##   bar_300 <= 0
##   crossing <= 0
##   hospital_300 <= 0
##   interseccion > 0
##   traffic_signals_300 > 0
##   traffic_signals_300 <= 4
##   trolebus <= 0
```

```
##    ACC_C_LESION_200 <= 73
##    ACC_S_LESION_100 > 0
##    ATROPELLADO_100 <= 0
##    MOTOCICLISTA_100 <= 1
##    MOTOCICLISTA_200 <= 6
##    ->  class SI  [0.631]
##
## Rule 5/29: (145/58.9, lift 1.4)
##    ACC_C_LESION_100 <= 0
##    ACC_S_LESION_200 <= 0
##    VOLCADURA_100 > 0
##    ->  class SI  [0.592]
##
## Rule 5/30: (114.3/37.8, lift 1.5)
##    crossing_300 > 2
##    crossing_300 <= 4
##    interseccion > 0
##    interseccion <= 6
##    rtp <= 0
##    traffic_signals_300 <= 6
##    ACC_C_LESION_200 <= 21
##    ATROPELLADO_100 > 0
##    ATROPELLADO_FATAL_100 <= 0
##    MOTOCICLISTA_100 <= 1
##    PER_ATRAPADO_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.666]
##
## Rule 5/31: (1869.3/855, lift 1.2)
##    crossing_300 <= 32
##    interseccion <= 0
##    restaurant_300 > 0
##    restaurant_300 <= 4
##    turning_circle <= 0
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 0
##    MOTOCICLISTA_100 <= 2
##    OTROS_200 <= 3
##    VEH_ATRAPADO_200 <= 2
##    VOLCADURA_100 <= 0
##    ->  class SI  [0.543]
##
## Rule 5/32: (76/24.6, lift 1.5)
```

```
##    interseccion <= 0
##    metro_300 > 2
##    restaurant_300 <= 0
##    rtp <= 0
##    turning_circle <= 0
##    ACC_S_LESION_100 > 0
##    ATROPELLADO_FATAL_100 <= 1
##    MOTOCICLISTA_100 <= 2
##    VOLCADURA_100 <= 0
##    -> class SI  [0.672]
##
## Rule 5/33: (163.5/51.7, lift 1.6)
##    interseccion > 0
##    school > 0
##    ACC_S_LESION_100 > 0
##    -> class SI  [0.681]
##
## Rule 5/34: (61.9/17.5, lift 1.6)
##    interseccion > 0
##    traffic_signals_300 <= 6
##    ACC_C_LESION_200 <= 73
##    ACC_FATAL_200 > 2
##    ACC_S_LESION_100 > 0
##    OTROS_200 <= 4
##    VOLCADURA_100 <= 12
##    VOLCADURA_200 <= 35
##    -> class SI  [0.711]
##
## Rule 5/35: (219.1/90, lift 1.3)
##    crossing_300 <= 4
##    interseccion > 0
##    ACC_C_LESION_100 <= 13
##    ACC_FATAL_200 <= 0
##    ATROPELLADO_100 > 0
##    OTROS_200 <= 1
##    PER_ATRAPADO_DESBARRANCADO_100 <= 0
##    VEH_ATRAPADO_100 <= 1
##    VEH_DESBARRANCADO_100 > 0
##    -> class SI  [0.589]
##
## Rule 5/36: (59.1/13.8, lift 1.7)
##    interseccion > 0
```

```
##   ACC_FATAL_100 > 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_FATAL_100 <= 0
##   OTROS_100 <= 0
##   OTROS_200 <= 4
##   -> class SI  [0.758]
##
## Rule 5/37: (39.9/9.4, lift 1.7)
##   interseccion <= 0
##   rtp <= 0
##   ACC_PRENSADO_200 <= 1
##   ATROPELLADO_FATAL_100 <= 2
##   MOTOCICLISTA_200 > 34
##   VOLCADURA_100 > 0
##   -> class SI  [0.752]
##
## Rule 5/38: (33.9/8.1, lift 1.7)
##   crossing_300 > 32
##   interseccion <= 0
##   -> class SI  [0.746]
##
## Rule 5/39: (71.4/26.2, lift 1.4)
##   interseccion <= 0
##   metro_300 <= 2
##   ACC_C_LESION_200 <= 49
##   ATROPELLADO_FATAL_100 <= 2
##   ATROPELLADO_FATAL_200 > 3
##   -> class SI  [0.630]
##
## Rule 5/40: (380.4/58.5, lift 1.9)
##   traffic_signals > 0
##   -> class SI  [0.844]
##
## Rule 5/41: (485.5/222, lift 1.2)
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_200 <= 0
##   -> class SI  [0.543]
##
## Rule 5/42: (216.8/93.2, lift 1.3)
##   ACC_S_LESION_200 <= 0
##   ATROPELLADO_100 > 0
```

```
##   VOLCADURA_100 <= 0
##   -> class SI  [0.569]
##
## Rule 5/43: (243.3/38.2, lift 1.9)
##   cruce_peligroso > 0
##   -> class SI  [0.840]
##
## Rule 5/44: (173.8/36.2, lift 1.8)
##   bank > 0
##   interseccion > 0
##   -> class SI  [0.788]
##
## Default class: NO
##
## -----  Trial 6:  -----
##
## Rules:
##
## Rule 6/1: (94155.8/42558.7, lift 1.0)
##   traffic_signals <= 0
##   -> class NO  [0.548]
##
## Rule 6/2: (9941.3/4025.7, lift 1.3)
##   interseccion > 0
##   traffic_signals_300 <= 2
##   ACC_PRENSADO_100 <= 2
##   ACC_S_LESION_100 > 10
##   ATROPELLADO_200 > 22
##   ATROPELLADO_FATAL_200 <= 4
##   VEH_ATRAPADO_200 <= 1
##   -> class SI  [0.595]
##
## Rule 6/3: (81813.4/40584.7, lift 1.1)
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.504]
##
## Rule 6/4: (5385.2/2453.7, lift 1.2)
##   bar_300 <= 0
##   interseccion > 0
##   metro_300 <= 0
##   restaurant <= 0
##   restaurant_300 <= 6
```

```
##   rtp <= 0
##   rtp_300 <= 34
##   supermarket <= 0
##   ACC_C_LESION_100 <= 4
##   ACC_C_LESION_200 <= 72
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_200 <= 1
##   ATROPELLADO_100 <= 4
##   ATROPELLADO_200 <= 22
##   MOTOCICLISTA_100 > 0
##   MOTOCICLISTA_200 <= 10
##   OTROS_200 <= 1
##   VEH_ATRAPADO_100 <= 1
##   VOLCADURA_100 <= 5
##   VOLCADURA_200 <= 17
##   ->  class SI  [0.544]
##
## Rule 6/5: (3229.7/1256, lift 1.3)
##   bar <= 0
##   hospital_300 <= 2
##   interseccion > 0
##   metro_300 > 0
##   speed_camera_300 <= 0
##   supermarket <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 9
##   ->  class SI  [0.611]
##
## Rule 6/6: (12398.8/5993.5, lift 1.1)
##   hospital_300 <= 0
##   interseccion > 0
##   metro_300 <= 0
##   rtp <= 0
##   rtp_300 <= 34
##   school_300 <= 6
##   ACC_C_LESION_100 <= 12
##   ACC_C_LESION_200 <= 32
##   ACC_FATAL_200 <= 0
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_200 <= 125
##   ATROPELLADO_100 <= 4
##   ATROPELLADO_200 <= 20
```

```
## ATROPELLADO_FATAL_200 <= 1
## MOTOCICLISTA_200 <= 3
## OTROS_200 <= 0
## PER_ATRAPADO_DESBARRANCADO_200 <= 0
## VEH_ATRAPADO_200 <= 0
## VEH_DESBARRANCADO_200 <= 0
## VOLCADURA_100 <= 4
## -> class SI [0.517]
##
## Rule 6/7: (5076.6/1833, lift 1.4)
## interseccion > 2
## ACC_PRENSADO_100 <= 2
## ACC_S_LESION_100 > 10
## ATROPELLADO_200 > 22
## ATROPELLADO_FATAL_100 <= 2
## ATROPELLADO_FATAL_200 <= 4
## -> class SI [0.639]
##
## Rule 6/8: (1866.9/668.7, lift 1.4)
## bar <= 0
## interseccion > 0
## rtp > 0
## ACC_S_LESION_100 > 0
## -> class SI [0.642]
##
## Rule 6/9: (408.7/160.1, lift 1.3)
## interseccion <= 0
## rtp <= 0
## ATROPELLADO_100 > 63
## -> class SI [0.608]
##
## Rule 6/10: (408.3/160, lift 1.3)
## interseccion > 0
## rtp <= 0
## ATROPELLADO_100 > 4
## ATROPELLADO_200 <= 22
## ATROPELLADO_FATAL_200 <= 1
## PER_ATRAPADO_DESBARRANCADO_100 > 0
## PER_ATRAPADO_DESBARRANCADO_100 <= 4
## VEH_ATRAPADO_100 <= 0
## VEH_DESBARRANCADO_100 <= 0
## VOLCADURA_100 <= 0
```

```
##    ->  class SI  [0.608]
##
## Rule 6/11: (1340.1/564.9, lift 1.3)
##   interseccion > 0
##   metro_300 <= 0
##   rtp <= 0
##   rtp_300 <= 34
##   ACC_C_LESION_200 <= 72
##   ACC_FATAL_200 <= 1
##   ATROPELLADO_100 > 3
##   ATROPELLADO_100 <= 4
##   ATROPELLADO_200 <= 22
##   ATROPELLADO_FATAL_200 <= 1
##   MOTOCICLISTA_100 > 0
##   OTROS_200 <= 1
##   VEH_ATRAPADO_100 <= 1
##   VOLCADURA_100 <= 5
##    ->  class SI  [0.578]
##
## Rule 6/12: (333.9/118.9, lift 1.4)
##   interseccion > 0
##   metro_300 <= 0
##   ATROPELLADO_100 > 12
##   ATROPELLADO_200 <= 22
##   ATROPELLADO_FATAL_200 <= 1
##   OTROS_200 <= 1
##   VEH_ATRAPADO_100 <= 0
##   VOLCADURA_100 <= 0
##    ->  class SI  [0.643]
##
## Rule 6/13: (2959.3/1209.2, lift 1.3)
##   hospital <= 0
##   hospital_300 <= 2
##   interseccion > 0
##   school_300 <= 6
##   ACC_PRENSADO_100 <= 2
##   ACC_S_LESION_100 > 0
##   OTROS_200 > 1
##   VEH_ATRAPADO_100 <= 1
##   VOLCADURA_200 <= 17
##    ->  class SI  [0.591]
##
```

```
## Rule 6/14: (2021.9/918.9, lift 1.2)
##   bar_300 <= 2
##   hospital_300 <= 2
##   interseccion > 0
##   metro_300 <= 0
##   restaurant <= 0
##   supermarket <= 0
##   ACC_C_LESION_200 <= 32
##   ATROPELLADO_100 <= 4
##   ATROPELLADO_200 <= 22
##   ATROPELLADO_FATAL_200 <= 1
##   MOTOCICLISTA_100 <= 0
##   OTROS_200 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   VEH_ATRAPADO_100 <= 1
##   VOLCADURA_100 > 0
##   VOLCADURA_100 <= 5
##   VOLCADURA_200 <= 17
##   -> class SI  [0.545]
##
## Rule 6/15: (1616.4/744.2, lift 1.2)
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 <= 0
##   -> class SI  [0.540]
##
## Rule 6/16: (268.5/100.3, lift 1.4)
##   hospital_300 <= 0
##   interseccion > 0
##   rtp <= 0
##   rtp_300 <= 34
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 <= 4
##   MOTOCICLISTA_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_200 > 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 2
##   VEH_ATRAPADO_200 <= 0
##   VOLCADURA_100 <= 0
##   VOLCADURA_200 <= 17
##   -> class SI  [0.626]
##
## Rule 6/17: (1096.1/499.8, lift 1.2)
```

```
##    ACC_S_LESION_100 <= 0
##    ATROPELLADO_100 > 0
##    ->  class SI  [0.544]
##
## Rule 6/18: (37063.3/13436.3, lift 1.2)
##    interseccion <= 0
##    restaurant <= 0
##    rtp <= 0
##    school_300 <= 8
##    ATROPELLADO_100 <= 63
##    ATROPELLADO_FATAL_100 <= 2
##    MOTOCICLISTA_100 <= 12
##    PER_ATRAPADO_DESBARRANCADO_100 <= 4
##    ->  class NO  [0.637]
##
## Rule 6/19: (441.3/176.9, lift 1.3)
##    interseccion > 0
##    rtp <= 0
##    ACC_PRENSADO_200 <= 1
##    ATROPELLADO_100 <= 4
##    ATROPELLADO_FATAL_200 <= 1
##    MOTOCICLISTA_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_100 <= 1
##    VEH_ATRAPADO_100 > 0
##    VEH_ATRAPADO_100 <= 1
##    VOLCADURA_100 <= 5
##    ->  class SI  [0.599]
##
## Rule 6/20: (811.7/310.6, lift 1.4)
##    ATROPELLADO_FATAL_100 <= 2
##    PER_ATRAPADO_DESBARRANCADO_100 > 4
##    ->  class SI  [0.617]
##
## Rule 6/21: (295.4/123.8, lift 1.3)
##    interseccion <= 0
##    restaurant <= 0
##    rtp <= 0
##    ATROPELLADO_100 <= 63
##    ATROPELLADO_FATAL_100 <= 2
##    MOTOCICLISTA_100 > 12
##    PER_ATRAPADO_DESBARRANCADO_100 <= 4
##    ->  class SI  [0.580]
```

```
##
## Rule 6/22: (138.5/46.4, lift 1.5)
##   interseccion > 0
##   rtp <= 0
##   ACC_PRENSADO_100 <= 2
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_200 <= 22
##   VEH_ATRAPADO_100 > 1
##   ->  class SI  [0.663]
##
## Rule 6/23: (232.9/91.5, lift 1.3)
##   crossing_300 <= 10
##   interseccion > 0
##   rtp <= 0
##   ACC_FATAL_200 <= 1
##   ATROPELLADO_100 > 4
##   ATROPELLADO_200 <= 22
##   ATROPELLADO_FATAL_200 <= 1
##   MOTOCICLISTA_200 <= 10
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   VEH_ATRAPADO_100 <= 0
##   VEH_ATRAPADO_200 > 0
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 0
##   ->  class SI  [0.606]
##
## Rule 6/24: (233.1/97.7, lift 1.3)
##   interseccion > 0
##   ACC_C_LESION_200 <= 32
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_200 <= 20
##   MOTOCICLISTA_100 <= 0
##   MOTOCICLISTA_200 > 5
##   ->  class SI  [0.580]
##
## Rule 6/25: (838.4/344.1, lift 1.3)
##   ATROPELLADO_FATAL_100 > 2
##   ->  class SI  [0.589]
##
## Rule 6/26: (60.4/13.6, lift 1.7)
##   interseccion <= 0
##   restaurant_300 <= 8
```

```
##    turning_circle <= 0
##    ACC_C_LESION_100 > 40
##    ACC_C_LESION_100 <= 45
##    ACC_FATAL_100 <= 1
##    ACC_PRENSADO_200 <= 1
##    ATROPELLADO_FATAL_100 <= 2
##    MOTOCICLISTA_100 <= 2
##    MOTOCICLISTA_200 <= 14
##    PER_ATRAPADO_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.765]
##
## Rule 6/27: (49.5/7, lift 1.9)
##    interseccion > 0
##    metro_300 <= 0
##    ACC_C_LESION_100 > 12
##    ACC_PRENSADO_200 <= 1
##    ATROPELLADO_100 <= 4
##    ATROPELLADO_200 <= 20
##    MOTOCICLISTA_100 <= 0
##    OTROS_200 <= 0
##    VOLCADURA_100 <= 0
##    ->  class SI  [0.844]
##
## Rule 6/28: (135.1/51.3, lift 1.4)
##    interseccion <= 0
##    restaurant <= 0
##    rtp <= 0
##    school_300 > 8
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.618]
##
## Rule 6/29: (277.1/87.6, lift 1.5)
##    interseccion > 0
##    ACC_FATAL_200 <= 1
##    ACC_PRENSADO_200 > 0
##    ATROPELLADO_100 <= 4
##    ATROPELLADO_200 <= 22
##    MOTOCICLISTA_100 > 0
##    OTROS_200 <= 1
##    VOLCADURA_200 <= 17
##    ->  class SI  [0.682]
##
```

```
## Rule 6/30: (77.9/20.3, lift 1.6)
##   interseccion > 0
##   metro_300 <= 0
##   ACC_PRENSADO_100 <= 2
##   ATROPELLADO_200 <= 22
##   ATROPELLADO_FATAL_200 <= 1
##   MOTOCICLISTA_100 > 6
##   MOTOCICLISTA_200 <= 10
##   OTROS_200 <= 1
##   VOLCADURA_200 <= 17
##   ->  class SI  [0.734]
##
## Rule 6/31: (58.1/16.1, lift 1.6)
##   interseccion <= 0
##   rtp <= 0
##   ACC_FATAL_100 > 1
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_200 <= 35
##   ->  class SI  [0.715]
##
## Rule 6/32: (43.6/8.9, lift 1.7)
##   interseccion > 0
##   metro_300 <= 0
##   school_300 > 6
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_200 <= 22
##   ->  class SI  [0.783]
##
## Rule 6/33: (118.8/32.5, lift 1.6)
##   bank <= 0
##   interseccion > 0
##   supermarket > 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.723]
##
## Rule 6/34: (67.6/19.6, lift 1.6)
##   bar_300 > 0
##   interseccion > 0
##   metro_300 <= 0
##   restaurant_300 <= 6
##   ATROPELLADO_100 <= 3
##   MOTOCICLISTA_100 > 0
```

```
##   ->  class SI  [0.704]
##
## Rule 6/35: (36.5/5, lift 1.9)
##   hospital > 0
##   interseccion > 0
##   metro_300 <= 0
##   ->  class SI  [0.844]
##
## Rule 6/36: (163.4/38.6, lift 1.7)
##   bank > 0
##   interseccion > 0
##   ->  class SI  [0.760]
##
## Rule 6/37: (32/4.1, lift 1.9)
##   interseccion > 0
##   ATROPELLADO_FATAL_100 <= 2
##   ATROPELLADO_FATAL_200 > 7
##   ->  class SI  [0.851]
##
## Default class: NO
##
## -----  Trial 7:  -----
##
## Rules:
##
## Rule 7/1: (86690.2/43193.7, lift 1.1)
##   ACC_S_LESION_200 > 0
##   ->  class SI  [0.502]
##
## Rule 7/2: (71464.4/31823.3, lift 1.0)
##   interseccion <= 2
##   ->  class NO  [0.555]
##
## Rule 7/3: (28144.9/13056.9, lift 1.1)
##   hospital_300 <= 0
##   nightclub_300 <= 0
##   restaurant_300 <= 14
##   turning_circle <= 0
##   ACC_PRENSADO_100 <= 0
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 > 29
##   ATROPELLADO_200 <= 30
```

```
##    ATROPELLADO_FATAL_200 <= 2
##    MOTOCICLISTA_100 <= 7
##    OTROS_200 <= 2
##    VEH_ATRAPADO_200 <= 1
##    VEH_DESBARRANCADO_200 <= 1
##    VOLCADURA_100 <= 2
##    ->  class SI  [0.536]
##
## Rule 7/4: (16425.7/7390, lift 1.2)
##    turning_circle <= 0
##    ACC_FATAL_100 <= 0
##    ACC_PRENSADO_100 <= 1
##    ACC_PRENSADO_200 <= 2
##    ACC_S_LESION_100 > 1
##    ACC_S_LESION_100 <= 228
##    ACC_S_LESION_200 > 29
##    OTROS_200 <= 2
##    PER_ATRAPADO_DESBARRANCADO_200 > 0
##    VEH_ATRAPADO_200 <= 3
##    ->  class SI  [0.550]
##
## Rule 7/5: (30631.9/10545.4, lift 1.2)
##    hospital_300 <= 0
##    restaurant <= 0
##    rtp <= 2
##    traffic_signals_300 <= 2
##    ACC_FATAL_200 <= 0
##    ACC_S_LESION_200 <= 29
##    OTROS_200 <= 0
##    ->  class NO  [0.656]
##
## Rule 7/6: (4851.2/2025.7, lift 1.2)
##    hotel_300 <= 2
##    restaurant_300 <= 14
##    rtp_300 <= 18
##    school <= 0
##    school_300 <= 2
##    traffic_signals_300 <= 4
##    ACC_S_LESION_100 > 1
##    ACC_S_LESION_100 <= 228
##    ACC_S_LESION_200 > 128
##    ATROPELLADO_100 <= 104
```

```
##    ATROPELLADO_FATAL_200 <= 2
##    OTROS_200 <= 2
##    PER_ATRAPADO_DESBARRANCADO_200 <= 0
##    VEH_ATRAPADO_200 <= 1
##    VEH_DESBARRANCADO_200 <= 0
##    -> class SI  [0.582]
##
## Rule 7/7: (804.8/364.5, lift 1.2)
##    restaurant <= 0
##    rtp <= 2
##    ACC_FATAL_100 > 0
##    ACC_S_LESION_100 > 0
##    ACC_S_LESION_200 <= 29
##    -> class SI  [0.547]
##
## Rule 7/8: (1620/728.6, lift 1.2)
##    ACC_C_LESION_100 > 0
##    ACC_S_LESION_100 <= 0
##    -> class SI  [0.550]
##
## Rule 7/9: (997.1/385, lift 1.3)
##    metrobus <= 0
##    restaurant > 0
##    ACC_S_LESION_100 > 0
##    -> class SI  [0.614]
##
## Rule 7/10: (1265.5/484.2, lift 1.3)
##    hotel <= 0
##    metrobus <= 0
##    restaurant_300 > 0
##    restaurant_300 <= 14
##    rtp_300 <= 18
##    school_300 <= 0
##    ACC_S_LESION_100 > 1
##    ACC_S_LESION_100 <= 228
##    ACC_S_LESION_200 > 128
##    ATROPELLADO_FATAL_200 <= 2
##    OTROS_200 <= 2
##    PER_ATRAPADO_DESBARRANCADO_200 <= 0
##    VEH_ATRAPADO_200 <= 1
##    VEH_DESBARRANCADO_200 <= 0
##    -> class SI  [0.617]
```

```
##
## Rule 7/11: (696.6/302.7, lift 1.2)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_100 <= 0
##   ATROPELLADO_100 > 0
##   ->  class SI  [0.565]
##
## Rule 7/12: (1005.2/429.3, lift 1.2)
##   crossing <= 0
##   hotel_300 <= 0
##   interseccion <= 2
##   metrobus <= 0
##   rtp <= 0
##   school <= 0
##   ACC_PRENSADO_100 <= 1
##   ACC_S_LESION_200 > 29
##   ACC_S_LESION_200 <= 128
##   ATROPELLADO_200 <= 30
##   ATROPELLADO_FATAL_100 > 0
##   ATROPELLADO_FATAL_200 <= 2
##   OTROS_200 <= 2
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   ->  class SI  [0.573]
##
## Rule 7/13: (748.6/310.1, lift 1.3)
##   rtp <= 0
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 <= 128
##   ATROPELLADO_FATAL_100 <= 0
##   MOTOCICLISTA_200 > 10
##   ->  class SI  [0.585]
##
## Rule 7/14: (589.5/230.7, lift 1.3)
##   crossing <= 0
##   hospital_300 <= 0
##   hotel_300 <= 0
##   interseccion <= 2
##   restaurant_300 <= 14
##   rtp <= 2
##   school <= 0
##   traffic_signals <= 0
##   turning_circle <= 0
```

```
##   ACC_S_LESION_100 > 54
##   ACC_S_LESION_200 <= 128
##   ATROPELLADO_FATAL_100 <= 0
##   MOTOCICLISTA_100 <= 7
##   MOTOCICLISTA_200 <= 10
##   PER_ATRAPADO_DESBARRANCADO_200 <= 0
##   VEH_ATRAPADO_200 <= 1
##   VOLCADURA_100 <= 2
##   -> class SI  [0.608]
##
## Rule 7/15: (559.1/248.4, lift 1.2)
##   rtp <= 2
##   traffic_signals_300 > 2
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_200 <= 29
##   -> class SI  [0.556]
##
## Rule 7/16: (9493.3/316.4, lift 1.8)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_100 <= 0
##   ATROPELLADO_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   -> class NO  [0.967]
##
## Rule 7/17: (335.9/61.7, lift 1.7)
##   traffic_signals > 0
##   -> class SI  [0.814]
##
## Rule 7/18: (196.5/73.4, lift 1.3)
##   restaurant <= 0
##   traffic_signals_300 <= 2
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 1
##   OTROS_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 > 0
##   -> class SI  [0.625]
##
## Rule 7/19: (41.4/3.9, lift 1.9)
##   ACC_S_LESION_100 <= 228
##   ATROPELLADO_100 > 104
##   -> class SI  [0.886]
##
```

```
## Rule 7/20: (493.3/214, lift 1.2)
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_200 <= 0
##   ->  class SI  [0.566]
##
## Rule 7/21: (435.1/193.7, lift 1.2)
##   restaurant <= 0
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 <= 2
##   OTROS_100 <= 0
##   ->  class SI  [0.555]
##
## Rule 7/22: (203.8/87.2, lift 1.2)
##   ACC_S_LESION_200 <= 0
##   MOTOCICLISTA_100 > 0
##   ->  class SI  [0.571]
##
## Rule 7/23: (222.4/39.5, lift 1.8)
##   cruce_peligroso > 0
##   ->  class SI  [0.819]
##
## Rule 7/24: (185.3/71, lift 1.3)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_200 <= 0
##   ATROPELLADO_100 > 0
##   ->  class SI  [0.616]
##
## Rule 7/25: (134.8/47.9, lift 1.4)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 > 0
##   ->  class SI  [0.642]
##
## Rule 7/26: (173.1/51.4, lift 1.5)
##   metrobus > 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.700]
##
## Rule 7/27: (260.8/64.7, lift 1.6)
##   rtp > 2
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.750]
```

```
##
## Default class: NO
##
## -----  Trial 8:  -----
##
## Rules:
##
## Rule 8/1: (94191.7/43301.3, lift 1.0)
##   traffic_signals <= 0
##   ->  class NO  [0.540]
##
## Rule 8/2: (7171.5/2981.1, lift 1.3)
##   interseccion > 0
##   rtp_300 <= 0
##   ACC_C_LESION_100 > 5
##   ATROPELLADO_100 > 0
##   ->  class SI  [0.584]
##
## Rule 8/3: (4350.2/1887.3, lift 1.2)
##   bar <= 0
##   crossing <= 0
##   hotel_300 <= 0
##   interseccion > 0
##   interseccion <= 10
##   metro_300 <= 0
##   restaurant <= 0
##   rtp_300 > 0
##   traffic_signals_300 <= 0
##   ACC_S_LESION_200 > 0
##   ATROPELLADO_100 > 2
##   ATROPELLADO_200 > 4
##   ATROPELLADO_200 <= 98
##   MOTOCICLISTA_100 <= 1
##   MOTOCICLISTA_200 <= 6
##   OTROS_200 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 3
##   VEH_ATRAPADO_100 <= 0
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 0
##   VOLCADURA_200 <= 6
##   ->  class SI  [0.566]
##
```

```
## Rule 8/4: (6135.8/2712.3, lift 1.2)
##   ATROPELLADO_200 > 9
##   MOTOCICLISTA_100 > 5
##   -> class SI  [0.558]
##
## Rule 8/5: (7872.4/3586.5, lift 1.2)
##   interseccion > 0
##   interseccion <= 4
##   restaurant_300 <= 0
##   rtp_300 <= 0
##   traffic_signals_300 <= 10
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 <= 23
##   ACC_S_LESION_200 <= 67
##   ATROPELLADO_100 > 0
##   ATROPELLADO_200 <= 37
##   MOTOCICLISTA_200 <= 3
##   PER_ATRAPADO_DESBARRANCADO_200 <= 4
##   VOLCADURA_100 <= 23
##   -> class SI  [0.544]
##
## Rule 8/6: (1634.4/577.7, lift 1.4)
##   bar <= 0
##   interseccion > 0
##   rtp > 0
##   ATROPELLADO_100 > 0
##   VOLCADURA_100 <= 23
##   -> class SI  [0.646]
##
## Rule 8/7: (2311.7/1023.6, lift 1.2)
##   crossing_300 <= 6
##   cruce_peligroso <= 0
##   hotel_300 <= 2
##   interseccion <= 0
##   restaurant <= 0
##   restaurant_300 > 0
##   restaurant_300 <= 2
##   rtp <= 2
##   traffic_signals <= 0
##   ACC_FATAL_100 <= 1
##   ACC_S_LESION_100 > 0
##   MOTOCICLISTA_100 <= 5
```

```
##     MOTOCICLISTA_200 <= 9
##     VEH_DESBARRANCADO_200 <= 0
##     ->  class SI  [0.557]
##
## Rule 8/8: (1972.2/854, lift 1.2)
##     crossing <= 0
##     interseccion > 0
##     rtp_300 > 0
##     school_300 <= 6
##     ATROPELLADO_100 > 0
##     OTROS_100 > 0
##     VEH_DESBARRANCADO_100 <= 0
##     VOLCADURA_100 <= 1
##     ->  class SI  [0.567]
##
## Rule 8/9: (83190.6/41306, lift 1.1)
##     ACC_S_LESION_100 > 0
##     ->  class SI  [0.503]
##
## Rule 8/10: (3018.8/1444.6, lift 1.1)
##     crossing_300 <= 6
##     hospital <= 0
##     interseccion <= 0
##     restaurant <= 0
##     rtp <= 2
##     rtp_300 <= 22
##     school <= 0
##     school_300 <= 2
##     traffic_signals_300 <= 0
##     trolebus <= 0
##     ACC_C_LESION_200 <= 18
##     ACC_FATAL_200 <= 1
##     ACC_S_LESION_100 > 1
##     ACC_S_LESION_200 > 5
##     ACC_S_LESION_200 <= 28
##     OTROS_200 <= 1
##     PER_ATRAPADO_DESBARRANCADO_100 <= 0
##     VEH_DESBARRANCADO_100 <= 0
##     VOLCADURA_100 <= 0
##     VOLCADURA_200 <= 7
##     ->  class SI  [0.521]
##
```

```
## Rule 8/11: (1466.5/661.1, lift 1.2)
##   bank <= 0
##   bar_300 <= 2
##   crossing <= 0
##   hotel_300 <= 2
##   metrobus <= 0
##   restaurant_300 <= 10
##   rtp_300 > 0
##   school <= 0
##   ATROPELLADO_100 > 0
##   MOTOCICLISTA_100 <= 5
##   OTROS_100 > 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 3
##   VEH_DESBARRANCADO_200 <= 0
##   VOLCADURA_100 > 1
##   VOLCADURA_100 <= 23
##   ->  class SI  [0.549]
##
## Rule 8/12: (879.7/388, lift 1.2)
##   hotel_300 <= 2
##   interseccion <= 0
##   metrobus <= 0
##   restaurant_300 <= 0
##   rtp <= 0
##   rtp_300 <= 22
##   traffic_signals_300 <= 0
##   ACC_C_LESION_100 <= 38
##   ACC_FATAL_100 <= 1
##   ACC_S_LESION_200 > 28
##   ATROPELLADO_100 > 13
##   MOTOCICLISTA_200 <= 17
##   OTROS_200 <= 1
##   VOLCADURA_100 <= 0
##   ->  class SI  [0.559]
##
## Rule 8/13: (1207.7/426, lift 1.4)
##   bank <= 0
##   bar_300 <= 16
##   interseccion > 0
##   restaurant_300 > 10
##   school <= 0
##   ATROPELLADO_100 > 0
```

```
##    ->  class SI  [0.647]
##
## Rule 8/14: (492.4/207.8, lift 1.3)
##   hotel_300 <= 2
##   interseccion <= 0
##   restaurant_300 <= 0
##   rtp <= 0
##   rtp_300 <= 22
##   trolebus <= 0
##   ACC_C_LESION_100 > 21
##   ACC_C_LESION_100 <= 38
##   ACC_FATAL_200 <= 1
##   ATROPELLADO_FATAL_100 <= 2
##   MOTOCICLISTA_100 <= 5
##   MOTOCICLISTA_200 <= 17
##   OTROS_200 <= 1
##   VEH_ATRAPADO_200 <= 2
##   VOLCADURA_100 > 0
##   VOLCADURA_100 <= 2
##    ->  class SI  [0.578]
##
## Rule 8/15: (226.4/77.6, lift 1.4)
##   bar_300 <= 0
##   hotel_300 <= 0
##   interseccion > 0
##   metro_300 <= 0
##   rtp_300 > 0
##   school <= 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 > 0
##   ATROPELLADO_200 <= 98
##   MOTOCICLISTA_100 <= 1
##   OTROS_100 <= 0
##   OTROS_200 <= 1
##   VOLCADURA_100 <= 0
##   VOLCADURA_200 > 6
##    ->  class SI  [0.656]
##
## Rule 8/16: (493.2/214.3, lift 1.2)
##   interseccion > 0
##   restaurant <= 0
##   ACC_FATAL_100 <= 0
```

```
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_200 <= 11
##   PER_ATRAPADO_DESBARRANCADO_100 > 0
##   ->  class SI  [0.565]
##
## Rule 8/17: (179.2/51.6, lift 1.5)
##   hospital_300 > 0
##   hotel_300 <= 2
##   interseccion > 0
##   metro_300 <= 2
##   restaurant_300 <= 10
##   rtp <= 0
##   rtp_300 > 0
##   ACC_S_LESION_100 <= 121
##   ATROPELLADO_100 > 0
##   MOTOCICLISTA_100 > 1
##   OTROS_100 <= 0
##   VOLCADURA_100 <= 1
##   ->  class SI  [0.710]
##
## Rule 8/18: (495.8/217.6, lift 1.2)
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_200 <= 0
##   ->  class SI  [0.561]
##
## Rule 8/19: (455.8/193.4, lift 1.2)
##   crossing_300 <= 6
##   cruce_peligroso <= 0
##   hospital <= 0
##   hotel_300 <= 2
##   interseccion <= 0
##   restaurant_300 <= 0
##   school_300 > 0
##   school_300 <= 2
##   traffic_signals <= 0
##   ACC_C_LESION_100 <= 38
##   ACC_S_LESION_200 > 3
##   ATROPELLADO_FATAL_100 <= 2
##   OTROS_200 <= 1
##   VOLCADURA_100 > 0
##   ->  class SI  [0.575]
##
```

```
## Rule 8/20: (786.3/321.8, lift 1.3)
##   bar_300 <= 16
##   interseccion > 0
##   metro_300 <= 2
##   ACC_C_LESION_200 > 5
##   ACC_FATAL_200 <= 2
##   ATROPELLADO_100 > 0
##   MOTOCICLISTA_100 <= 5
##   OTROS_100 <= 0
##   VEH_DESBARRANCADO_200 <= 0
##   VOLCADURA_100 > 4
##   VOLCADURA_100 <= 23
##   ->  class SI  [0.590]
##
## Rule 8/21: (163.5/56.4, lift 1.4)
##   interseccion <= 0
##   restaurant_300 <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_200 <= 3
##   OTROS_200 <= 1
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 > 0
##   VOLCADURA_100 <= 2
##   ->  class SI  [0.653]
##
## Rule 8/22: (403.5/164.6, lift 1.3)
##   bar_300 <= 0
##   hospital_300 <= 0
##   hotel_300 <= 0
##   interseccion > 4
##   interseccion <= 10
##   rtp_300 > 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 > 0
##   ATROPELLADO_FATAL_100 <= 2
##   MOTOCICLISTA_100 > 1
##   MOTOCICLISTA_100 <= 5
##   OTROS_100 <= 0
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 1
##   ->  class SI  [0.592]
##
```

```
## Rule 8/23: (835/374.5, lift 1.2)
##   crossing_300 <= 6
##   hotel_300 <= 2
##   interseccion <= 0
##   metrobus <= 0
##   restaurant <= 0
##   restaurant_300 <= 2
##   school_300 <= 2
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 0
##   MOTOCICLISTA_100 <= 5
##   MOTOCICLISTA_200 <= 17
##   OTROS_100 <= 2
##   OTROS_200 > 1
##   VEH_ATRAPADO_200 <= 2
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 2
##   -> class SI  [0.551]
##
## Rule 8/24: (891/415.8, lift 1.2)
##   crossing_300 > 6
##   cruce_peligroso <= 0
##   interseccion <= 0
##   restaurant <= 0
##   rtp_300 <= 22
##   ACC_FATAL_100 <= 1
##   ACC_S_LESION_100 > 0
##   MOTOCICLISTA_100 <= 5
##   -> class SI  [0.533]
##
## Rule 8/25: (71.3/10.5, lift 1.8)
##   bank <= 0
##   bar_300 <= 2
##   hotel_300 <= 0
##   interseccion > 0
##   restaurant_300 <= 10
##   rtp <= 0
##   rtp_300 > 0
##   school_300 <= 6
##   ACC_S_LESION_100 > 121
##   MOTOCICLISTA_100 <= 5
```

```
##   OTROS_100 <= 0
##   VOLCADURA_100 <= 1
##   ->  class SI  [0.843]
##
## Rule 8/26: (435.9/193, lift 1.2)
##   interseccion <= 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 0
##   MOTOCICLISTA_200 <= 17
##   OTROS_200 <= 1
##   VOLCADURA_100 <= 0
##   VOLCADURA_200 > 7
##   ->  class SI  [0.557]
##
## Rule 8/27: (126.4/44, lift 1.4)
##   interseccion > 0
##   restaurant_300 <= 10
##   rtp <= 0
##   rtp_300 > 0
##   ACC_C_LESION_200 <= 5
##   ATROPELLADO_100 > 0
##   MOTOCICLISTA_100 <= 5
##   VOLCADURA_100 > 1
##   ->  class SI  [0.650]
##
## Rule 8/28: (190.9/75.8, lift 1.3)
##   interseccion > 0
##   rtp_300 > 0
##   MOTOCICLISTA_100 <= 5
##   VEH_DESBARRANCADO_100 > 0
##   VOLCADURA_100 <= 1
##   ->  class SI  [0.602]
##
## Rule 8/29: (94.7/19.2, lift 1.7)
##   bar_300 <= 0
##   interseccion > 0
##   interseccion <= 10
##   restaurant_300 <= 10
##   ATROPELLADO_100 > 0
##   MOTOCICLISTA_100 <= 1
##   MOTOCICLISTA_200 > 15
##   OTROS_200 <= 1
```

```
##     VOLCADURA_100 <= 1
##     ->  class SI  [0.792]
##
## Rule 8/30: (264.1/93.4, lift 1.4)
##    interseccion > 0
##    rtp_300 <= 0
##    school_300 <= 2
##    traffic_signals_300 <= 10
##    ACC_C_LESION_100 <= 5
##    ACC_S_LESION_200 <= 67
##    ATROPELLADO_100 > 0
##    ATROPELLADO_200 <= 37
##    PER_ATRAPADO_DESBARRANCADO_200 <= 4
##    VOLCADURA_200 > 3
##    ->  class SI  [0.645]
##
## Rule 8/31: (79.6/16.6, lift 1.7)
##    bar <= 0
##    bar_300 > 2
##    interseccion > 0
##    restaurant_300 <= 10
##    rtp <= 0
##    rtp_300 > 0
##    trolebus <= 0
##    ->  class SI  [0.785]
##
## Rule 8/32: (83.8/24.9, lift 1.5)
##    hotel_300 <= 0
##    interseccion > 0
##    interseccion <= 10
##    rtp <= 0
##    rtp_300 > 0
##    OTROS_200 <= 1
##    VEH_ATRAPADO_200 > 2
##    VOLCADURA_100 <= 1
##    ->  class SI  [0.698]
##
## Rule 8/33: (44.4/8.3, lift 1.7)
##    interseccion > 0
##    rtp_300 <= 0
##    ACC_C_LESION_100 <= 5
##    ACC_S_LESION_200 <= 67
```

```
##   ATROPELLADO_100 > 0
##   ATROPELLADO_200 > 37
##   ->  class SI  [0.799]
##
## Rule 8/34: (56.5/13.9, lift 1.6)
##   crossing_300 <= 6
##   interseccion <= 0
##   restaurant_300 > 2
##   traffic_signals <= 0
##   ACC_C_LESION_100 > 49
##   ACC_C_LESION_100 <= 53
##   MOTOCICLISTA_100 <= 5
##   MOTOCICLISTA_200 <= 17
##   ->  class SI  [0.746]
##
## Rule 8/35: (74.6/13, lift 1.8)
##   interseccion > 0
##   restaurant_300 <= 10
##   rtp_300 > 0
##   ACC_C_LESION_100 > 24
##   MOTOCICLISTA_100 <= 1
##   OTROS_100 <= 0
##   VOLCADURA_100 <= 0
##   ->  class SI  [0.817]
##
## Rule 8/36: (152.9/33.8, lift 1.7)
##   interseccion > 0
##   ATROPELLADO_200 > 126
##   MOTOCICLISTA_100 <= 5
##   ->  class SI  [0.776]
##
## Rule 8/37: (111.1/41.4, lift 1.4)
##   interseccion > 0
##   rtp <= 0
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_200 <= 11
##   ATROPELLADO_FATAL_100 > 0
##   ->  class SI  [0.625]
##
## Rule 8/38: (416.5/98.9, lift 1.7)
##   cruce_peligroso <= 0
##   interseccion > 0
```

```
##   restaurant > 0
##   ATROPELLADO_200 <= 126
##   -> class SI [0.761]
##
## Rule 8/39: (89.5/33.2, lift 1.4)
##   interseccion > 0
##   ACC_FATAL_100 > 0
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_200 <= 11
##   -> class SI [0.627]
##
## Rule 8/40: (499.7/178.1, lift 1.4)
##   interseccion > 0
##   rtp_300 <= 0
##   school_300 > 2
##   ATROPELLADO_100 > 0
##   MOTOCICLISTA_100 <= 5
##   -> class SI [0.643]
##
## Rule 8/41: (70.7/17.2, lift 1.6)
##   hospital > 0
##   hotel_300 <= 2
##   restaurant <= 0
##   rtp_300 <= 22
##   MOTOCICLISTA_100 <= 5
##   VOLCADURA_100 <= 2
##   -> class SI [0.750]
##
## Rule 8/42: (49.9/12.1, lift 1.6)
##   crossing_300 <= 6
##   interseccion <= 0
##   school_300 <= 2
##   ACC_C_LESION_100 <= 21
##   ACC_FATAL_200 <= 1
##   ATROPELLADO_FATAL_100 > 1
##   ATROPELLADO_FATAL_100 <= 2
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 > 0
##   VOLCADURA_100 <= 2
##   -> class SI [0.747]
##
## Rule 8/43: (354.2/155.6, lift 1.2)
```

```
##   interseccion <= 0
##   restaurant_300 > 2
##   ACC_C_LESION_100 <= 49
##   ACC_PRENSADO_100 <= 0
##   MOTOCICLISTA_200 <= 17
##   VOLCADURA_200 > 9
##   ->  class SI  [0.560]
##
## Rule 8/44: (38.6/12.8, lift 1.4)
##   ACC_S_LESION_200 <= 0
##   VEH_ATRAPADO_100 > 0
##   ->  class SI  [0.659]
##
## Rule 8/45: (170.3/69.8, lift 1.3)
##   crossing_300 <= 6
##   restaurant_300 > 2
##   ACC_FATAL_100 <= 1
##   ACC_PRENSADO_100 > 0
##   MOTOCICLISTA_100 <= 5
##   ->  class SI  [0.589]
##
## Rule 8/46: (39.7/13, lift 1.4)
##   interseccion <= 0
##   ACC_FATAL_100 > 2
##   MOTOCICLISTA_100 <= 5
##   ->  class SI  [0.665]
##
## Rule 8/47: (153.2/40.9, lift 1.6)
##   bank > 0
##   interseccion > 0
##   ->  class SI  [0.730]
##
## Default class: NO
##
## -----  Trial 9:  -----
##
## Rules:
##
## Rule 9/1: (94304.9/43836, lift 1.0)
##   cruce_peligroso <= 0
##   ->  class NO  [0.535]
##
```

```
## Rule 9/2: (17674.1/7907.5, lift 1.2)
##   interseccion > 2
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_100 <= 1
##   ACC_S_LESION_100 > 3
##   FERROVIARIO_200 <= 0
##   ->  class SI  [0.553]
##
## Rule 9/3: (3594.6/1635.5, lift 1.2)
##   interseccion > 0
##   interseccion <= 2
##   school_300 <= 2
##   traffic_signals_300 <= 8
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 > 3
##   ATROPELLADO_100 > 0
##   ATROPELLADO_200 <= 107
##   ATROPELLADO_FATAL_100 <= 1
##   OTROS_200 > 0
##   OTROS_200 <= 2
##   PER_ATRAPADO_DESBARRANCADO_200 <= 10
##   VEH_ATRAPADO_200 <= 0
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.545]
##
## Rule 9/4: (1719.3/634, lift 1.4)
##   bar <= 0
##   hospital_300 <= 2
##   interseccion > 0
##   supermarket <= 0
##   traffic_signals_300 <= 8
##   ACC_C_LESION_200 > 49
##   ACC_FATAL_200 <= 3
##   ATROPELLADO_100 > 0
##   ATROPELLADO_100 <= 18
##   ATROPELLADO_200 <= 50
##   ATROPELLADO_FATAL_100 <= 1
##   FERROVIARIO_200 <= 0
##   MOTOCICLISTA_200 <= 13
##   OTROS_200 <= 0
##   ->  class SI  [0.631]
##
```

```
## Rule 9/5: (1221.4/506.5, lift 1.3)
##   hospital_300 <= 2
##   interseccion <= 0
##   metrobus <= 0
##   rtp <= 2
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_200 <= 70
##   VOLCADURA_100 > 2
##   -> class SI  [0.585]
##
## Rule 9/6: (2095/943.6, lift 1.2)
##   hospital_300 <= 2
##   hotel_300 <= 0
##   interseccion > 0
##   interseccion <= 2
##   metro_300 <= 0
##   rtp <= 2
##   school <= 0
##   supermarket <= 0
##   traffic_signals_300 <= 8
##   trolebus <= 0
##   ACC_S_LESION_100 > 3
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_200 <= 50
##   MOTOCICLISTA_200 <= 13
##   OTROS_200 <= 2
##   VEH_DESBARRANCADO_100 <= 0
##   -> class SI  [0.550]
##
## Rule 9/7: (2054.3/918.7, lift 1.2)
##   bar_300 <= 0
##   hotel_300 <= 0
##   interseccion > 0
##   interseccion <= 2
##   restaurant <= 0
##   school <= 0
##   school_300 <= 2
##   traffic_signals_300 <= 8
##   ACC_S_LESION_100 > 3
##   ATROPELLADO_100 <= 18
##   ATROPELLADO_200 <= 50
##   ATROPELLADO_FATAL_100 <= 1
```

```
##    FERROVIARIO_200 <= 0
##    MOTOCICLISTA_200 <= 19
##    OTROS_200 <= 2
##    VEH_ATRAPADO_200 > 0
##    ->  class SI  [0.553]
##
## Rule 9/8: (2238.8/914.8, lift 1.3)
##    bar_300 <= 0
##    hotel_300 <= 0
##    interseccion > 0
##    ACC_S_LESION_100 > 3
##    ATROPELLADO_100 <= 41
##    ATROPELLADO_200 > 50
##    ATROPELLADO_200 <= 107
##    ATROPELLADO_FATAL_100 <= 4
##    VEH_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.591]
##
## Rule 9/9: (2076.1/813.6, lift 1.3)
##    hotel_300 > 0
##    interseccion > 0
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.608]
##
## Rule 9/10: (1144.6/522.6, lift 1.2)
##    ACC_C_LESION_100 > 0
##    ACC_S_LESION_100 <= 0
##    ACC_S_LESION_200 > 0
##    ->  class SI  [0.543]
##
## Rule 9/11: (779.1/324.9, lift 1.3)
##    bar_300 <= 0
##    hotel_300 <= 0
##    interseccion > 0
##    interseccion <= 2
##    school_300 > 2
##    ACC_S_LESION_100 > 3
##    ATROPELLADO_100 <= 41
##    ATROPELLADO_200 <= 107
##    ->  class SI  [0.583]
##
## Rule 9/12: (1128.6/490.5, lift 1.2)
```

```
##   bar_300 <= 12
##   interseccion > 0
##   interseccion <= 2
##   metro <= 0
##   school <= 0
##   school_300 <= 2
##   ACC_FATAL_100 > 0
##   ACC_S_LESION_100 > 3
##   ATROPELLADO_100 <= 39
##   ATROPELLADO_200 <= 50
##   FERROVIARIO_200 <= 0
##   OTROS_200 <= 2
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.565]
##
## Rule 9/13: (1232.5/521.6, lift 1.2)
##   cruce_peligroso <= 0
##   hospital_300 <= 2
##   interseccion <= 0
##   nightclub_300 <= 0
##   rtp <= 2
##   ACC_C_LESION_100 <= 16
##   ACC_S_LESION_100 > 0
##   VOLCADURA_100 > 2
##   ->  class SI  [0.577]
##
## Rule 9/14: (205.1/40.3, lift 1.7)
##   cruce_peligroso > 0
##   ->  class SI  [0.801]
##
## Rule 9/15: (463.2/195.6, lift 1.2)
##   interseccion > 0
##   interseccion <= 2
##   school_300 <= 2
##   traffic_signals_300 <= 8
##   ACC_C_LESION_200 <= 49
##   ACC_FATAL_100 <= 0
##   ACC_FATAL_200 > 0
##   ACC_S_LESION_100 > 3
##   ATROPELLADO_100 > 0
##   ATROPELLADO_100 <= 18
##   OTROS_200 <= 0
```

```
##   VEH_ATRAPADO_200 <= 0
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.577]
##
## Rule 9/16: (1626.3/607.7, lift 1.3)
##   bar_300 > 0
##   bar_300 <= 12
##   interseccion > 0
##   ACC_S_LESION_100 > 3
##   ->  class SI  [0.626]
##
## Rule 9/17: (123.8/27.6, lift 1.7)
##   metrobus <= 0
##   nightclub_300 <= 0
##   restaurant_300 > 20
##   VOLCADURA_100 > 2
##   ->  class SI  [0.773]
##
## Rule 9/18: (189.8/78.2, lift 1.3)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_200 <= 0
##   ATROPELLADO_100 > 0
##   ->  class SI  [0.587]
##
## Rule 9/19: (112.9/43.3, lift 1.3)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_200 <= 0
##   MOTOCICLISTA_100 > 0
##   ->  class SI  [0.614]
##
## Rule 9/20: (636.6/277, lift 1.2)
##   metrobus <= 0
##   nightclub_300 > 0
##   ACC_S_LESION_100 > 0
##   VOLCADURA_100 <= 2
##   ->  class SI  [0.565]
##
## Rule 9/21: (310.2/95.1, lift 1.5)
##   bar <= 0
##   interseccion > 0
##   metrobus <= 0
##   ATROPELLADO_200 > 128
```

```
## -> class SI [0.692]
##
## Rule 9/22: (61.3/20.5, lift 1.4)
## interseccion <= 0
## ATROPELLADO_FATAL_200 > 6
## VOLCADURA_100 <= 2
## -> class SI [0.660]
##
## Rule 9/23: (708.7/206.4, lift 1.5)
## interseccion > 2
## rtp > 0
## ACC_PRENSADO_100 <= 1
## ACC_S_LESION_100 > 3
## -> class SI [0.708]
##
## Rule 9/24: (93.4/28.3, lift 1.5)
## bar_300 <= 0
## interseccion > 0
## supermarket > 0
## ACC_S_LESION_100 > 3
## -> class SI [0.693]
##
## Rule 9/25: (272/113.4, lift 1.3)
## bar_300 <= 0
## hospital_300 > 2
## interseccion > 0
## ACC_FATAL_100 <= 0
## -> class SI [0.583]
##
## Rule 9/26: (197.6/84.4, lift 1.2)
## ACC_S_LESION_100 > 0
## ACC_S_LESION_100 <= 3
## VEH_DESBARRANCADO_100 > 0
## -> class SI [0.572]
##
## Rule 9/27: (163.2/53.1, lift 1.4)
## metrobus > 0
## ACC_S_LESION_100 > 0
## -> class SI [0.672]
##
## Rule 9/28: (57.4/10.4, lift 1.7)
## restaurant > 4
```

```
##  ->  class SI  [0.808]
##
## Rule 9/29: (57.8/8.9, lift 1.8)
##   interseccion > 0
##   metro > 0
##  ->  class SI  [0.835]
##
## Default class: NO
##
## -----  Trial 10:  -----
##
## Rules:
##
## Rule 10/1: (87184.1/40895.7, lift 1.0)
##   metro_300 <= 0
##   traffic_signals <= 0
##  ->  class NO  [0.531]
##
## Rule 10/2: (7018.6/3189.2, lift 1.1)
##   metro_300 > 0
##   ACC_S_LESION_100 > 0
##  ->  class SI  [0.546]
##
## Rule 10/3: (20005.9/9264.4, lift 1.1)
##   hotel_300 <= 0
##   interseccion > 0
##   interseccion <= 2
##   nightclub_300 <= 0
##   turning_circle <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_200 <= 290
##   ATROPELLADO_200 <= 128
##   FERROVIARIO_200 <= 0
##   OTROS_200 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 3
##   VEH_ATRAPADO_100 <= 0
##   VOLCADURA_100 <= 5
##  ->  class SI  [0.537]
##
## Rule 10/4: (2853.4/1192, lift 1.2)
##   interseccion > 2
##   metro_300 <= 0
```

```
##    nightclub_300 <= 0
##    restaurant_300 <= 12
##    ACC_C_LESION_200 > 20
##    ACC_PRENSADO_100 <= 0
##    ACC_S_LESION_100 > 3
##    ACC_S_LESION_100 <= 76
##    ATROPELLADO_100 <= 23
##    ATROPELLADO_FATAL_100 <= 1
##    FERROVIARIO_200 <= 0
##    OTROS_200 <= 0
##    VEH_DESBARRANCADO_100 <= 0
##    VOLCADURA_100 <= 4
##    VOLCADURA_200 <= 8
##    ->  class SI  [0.582]
##
## Rule 10/5: (2628.2/1159.8, lift 1.2)
##    crossing <= 0
##    interseccion > 2
##    ACC_S_LESION_100 > 0
##    ACC_S_LESION_100 <= 3
##    ACC_S_LESION_200 <= 33
##    ATROPELLADO_200 <= 15
##    OTROS_200 <= 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 1
##    VEH_DESBARRANCADO_100 <= 0
##    VOLCADURA_100 <= 3
##    ->  class SI  [0.559]
##
## Rule 10/6: (2241.9/988.4, lift 1.2)
##    bank <= 0
##    interseccion <= 0
##    restaurant <= 0
##    traffic_signals <= 0
##    ACC_C_LESION_200 <= 42
##    ACC_S_LESION_100 > 0
##    MOTOCICLISTA_100 <= 6
##    PER_ATRAPADO_DESBARRANCADO_100 > 0
##    VEH_DESBARRANCADO_200 <= 0
##    ->  class SI  [0.559]
##
## Rule 10/7: (3933.6/1784.2, lift 1.1)
##    hotel_300 > 0
```

```
##     school_300 <= 2
##     ACC_S_LESION_100 > 0
##     ->  class SI  [0.546]
##
## Rule 10/8: (464.1/149, lift 1.4)
##     hospital <= 0
##     interseccion > 0
##     metro_300 <= 0
##     trolebus <= 0
##     ATROPELLADO_100 > 30
##     OTROS_200 > 0
##     VOLCADURA_100 <= 5
##     ->  class SI  [0.678]
##
## Rule 10/9: (71760.9/34691.1, lift 1.1)
##     ATROPELLADO_100 > 0
##     ->  class SI  [0.517]
##
## Rule 10/10: (657.3/246, lift 1.3)
##     interseccion > 2
##     metro_300 <= 0
##     ACC_S_LESION_100 > 0
##     ATROPELLADO_200 <= 128
##     OTROS_200 <= 0
##     PER_ATRAPADO_DESBARRANCADO_200 > 1
##     VEH_DESBARRANCADO_100 <= 0
##     VOLCADURA_100 <= 5
##     VOLCADURA_200 <= 8
##     ->  class SI  [0.625]
##
## Rule 10/11: (370.4/145.5, lift 1.3)
##     bank <= 0
##     cruce_peligroso <= 0
##     interseccion <= 0
##     metro_300 <= 0
##     restaurant <= 4
##     trolebus <= 0
##     ACC_C_LESION_100 <= 82
##     MOTOCICLISTA_100 > 6
##     OTROS_100 <= 2
##     PER_ATRAPADO_DESBARRANCADO_100 > 0
##     ->  class SI  [0.607]
```

```
##
## Rule 10/12: (900.2/418.3, lift 1.1)
##   cruce_peligroso <= 0
##   interseccion <= 0
##   metro_300 <= 0
##   school_300 > 2
##   ACC_S_LESION_100 > 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.535]
##
## Rule 10/13: (326.5/119.3, lift 1.3)
##   interseccion > 2
##   metro_300 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 > 3
##   VOLCADURA_200 <= 8
##   ->  class SI  [0.634]
##
## Rule 10/14: (337.4/88.1, lift 1.6)
##   interseccion > 0
##   metro_300 <= 0
##   restaurant > 0
##   trolebus <= 0
##   ->  class SI  [0.737]
##
## Rule 10/15: (304/123.2, lift 1.2)
##   hotel_300 <= 0
##   interseccion <= 0
##   school_300 <= 2
##   ACC_S_LESION_100 > 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   VEH_ATRAPADO_100 <= 2
##   VOLCADURA_200 > 28
##   ->  class SI  [0.594]
##
## Rule 10/16: (246.8/65.1, lift 1.5)
##   rtp > 2
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.734]
##
## Rule 10/17: (392.8/138, lift 1.4)
```

```
##   trolebus > 0
##   ACC_S_LESION_100 > 0
##   -> class SI [0.648]
##
## Rule 10/18: (182.9/59.7, lift 1.4)
##   interseccion > 2
##   ACC_PRENSADO_100 > 0
##   OTROS_200 <= 0
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 5
##   -> class SI [0.672]
##
## Rule 10/19: (10349.5/1659.4, lift 1.6)
##   ACC_S_LESION_100 <= 0
##   -> class NO [0.840]
##
## Rule 10/20: (103.1/36.7, lift 1.3)
##   interseccion > 8
##   ACC_C_LESION_200 <= 20
##   ACC_S_LESION_100 > 3
##   OTROS_200 <= 0
##   VEH_DESBARRANCADO_100 <= 0
##   -> class SI [0.641]
##
## Rule 10/21: (61.2/7.3, lift 1.8)
##   interseccion > 0
##   metro_300 <= 0
##   restaurant <= 0
##   ATROPELLADO_200 > 128
##   VOLCADURA_100 <= 5
##   -> class SI [0.868]
##
## Rule 10/22: (196.2/42.4, lift 1.6)
##   cruce_peligroso > 0
##   -> class SI [0.781]
##
## Rule 10/23: (89.3/28.8, lift 1.4)
##   hotel_300 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   VEH_ATRAPADO_100 > 2
##   -> class SI [0.673]
##
```

```
## Rule 10/24: (54.6/13.2, lift 1.6)
##   hospital > 0
##   metro_300 <= 0
##   school_300 <= 2
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   -> class SI  [0.749]
##
## Rule 10/25: (212.6/69.4, lift 1.4)
##   interseccion > 0
##   metro_300 <= 0
##   OTROS_200 <= 0
##   VOLCADURA_100 > 4
##   VOLCADURA_100 <= 5
##   -> class SI  [0.672]
##
## Default class: SI
##
## -----  Trial 11:  -----
##
## Rules:
##
## Rule 11/1: (94206.2/45273.3, lift 1.0)
##   traffic_signals <= 0
##   -> class NO  [0.519]
##
## Rule 11/2: (75042/36032.8, lift 1.1)
##   ACC_C_LESION_100 > 0
##   -> class SI  [0.520]
##
## Rule 11/3: (21511.6/9808.1, lift 1.1)
##   interseccion > 2
##   interseccion <= 10
##   traffic_signals_300 <= 14
##   ACC_S_LESION_100 > 0
##   VEH_DESBARRANCADO_200 <= 0
##   -> class SI  [0.544]
##
## Rule 11/4: (729.5/330.5, lift 1.1)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_100 <= 0
##   ATROPELLADO_100 > 0
##   -> class SI  [0.547]
```

```
##
## Rule 11/5: (54.1/17.7, lift 1.3)
##    interseccion > 10
##    rtp <= 0
##    ->  class NO  [0.667]
##
## Default class: NO
##
## -----  Trial 12:  -----
##
## Rules:
##
## Rule 12/1: (88540.2/43069.4, lift 1.0)
##    ACC_S_LESION_200 > 0
##    ->  class NO  [0.514]
##
## Rule 12/2: (5969.8/603, lift 1.7)
##    ACC_S_LESION_200 <= 0
##    ->  class NO  [0.899]
##
## Rule 12/3: (6348.1/2865.9, lift 1.2)
##    bar_300 <= 0
##    crossing_300 <= 6
##    hotel_300 <= 0
##    interseccion > 2
##    interseccion <= 8
##    metro_300 <= 0
##    restaurant_300 <= 0
##    ACC_FATAL_200 <= 0
##    ACC_S_LESION_200 > 0
##    ATROPELLADO_FATAL_100 <= 1
##    MOTOCICLISTA_100 > 0
##    MOTOCICLISTA_100 <= 4
##    MOTOCICLISTA_200 <= 13
##    PER_ATRAPADO_DESBARRANCADO_100 <= 2
##    PER_ATRAPADO_DESBARRANCADO_200 <= 4
##    VEH_ATRAPADO_100 <= 1
##    VOLCADURA_100 <= 10
##    ->  class SI  [0.549]
##
## Rule 12/4: (2974/1247.4, lift 1.3)
##    bar <= 0
```

```
##    interseccion > 0
##    ACC_C_LESION_200 > 101
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.580]
##
## Rule 12/5: (2833.8/1220.4, lift 1.2)
##    rtp > 0
##    ACC_S_LESION_200 > 0
##    ->  class SI  [0.569]
##
## Rule 12/6: (2092.3/935.2, lift 1.2)
##    bank <= 0
##    cruce_peligroso <= 0
##    hotel_300 <= 0
##    interseccion > 0
##    interseccion <= 2
##    metro_300 <= 2
##    restaurant <= 0
##    school <= 0
##    supermarket <= 0
##    turning_circle <= 0
##    ACC_FATAL_200 <= 1
##    ACC_PRENSADO_200 <= 0
##    ACC_S_LESION_100 <= 211
##    ATROPELLADO_100 <= 34
##    ATROPELLADO_FATAL_200 <= 0
##    PER_ATRAPADO_DESBARRANCADO_100 > 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 10
##    VEH_ATRAPADO_100 <= 1
##    ->  class SI  [0.553]
##
## Rule 12/7: (2160.2/944, lift 1.2)
##    bar <= 0
##    crossing_300 <= 6
##    interseccion > 2
##    interseccion <= 10
##    school_300 > 0
##    ACC_PRENSADO_200 <= 0
##    PER_ATRAPADO_DESBARRANCADO_100 <= 2
##    PER_ATRAPADO_DESBARRANCADO_200 <= 4
##    ->  class SI  [0.563]
##
```

```
## Rule 12/8: (1545.9/684, lift 1.2)
##   crossing_300 <= 6
##   hotel_300 <= 2
##   interseccion > 2
##   metro_300 <= 0
##   school_300 <= 0
##   supermarket <= 0
##   traffic_signals_300 <= 14
##   ACC_FATAL_200 <= 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 > 4
##   ATROPELLADO_FATAL_100 <= 1
##   MOTOCICLISTA_100 <= 0
##   MOTOCICLISTA_200 <= 7
##   PER_ATRAPADO_DESBARRANCADO_200 <= 4
##   VEH_ATRAPADO_200 <= 1
##   VOLCADURA_100 <= 10
##   ->  class SI  [0.557]
##
## Rule 12/9: (697.4/267.6, lift 1.3)
##   hotel_300 <= 0
##   interseccion > 0
##   interseccion <= 2
##   school_300 > 0
##   ACC_C_LESION_200 <= 101
##   ACC_S_LESION_100 <= 140
##   OTROS_200 > 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 10
##   VEH_ATRAPADO_200 <= 2
##   VOLCADURA_200 <= 24
##   ->  class SI  [0.616]
##
## Rule 12/10: (256.4/48.6, lift 1.7)
##   crossing_300 <= 6
##   interseccion > 2
##   restaurant_300 > 4
##   school_300 <= 0
##   traffic_signals_300 <= 14
##   ACC_C_LESION_200 <= 101
##   VOLCADURA_100 <= 10
##   VOLCADURA_200 <= 24
##   ->  class SI  [0.808]
```

```
##
## Rule 12/11: (588.6/231.5, lift 1.3)
##   interseccion > 0
##   interseccion <= 2
##   restaurant_300 <= 40
##   rtp <= 0
##   ACC_S_LESION_100 > 0
##   MOTOCICLISTA_200 <= 0
##   OTROS_200 > 0
##   ->  class SI  [0.606]
##
## Rule 12/12: (1898.8/895, lift 1.1)
##   bar_300 <= 0
##   crossing <= 0
##   interseccion <= 0
##   rtp <= 0
##   rtp_300 > 4
##   school_300 <= 4
##   traffic_signals_300 <= 6
##   ACC_C_LESION_100 > 0
##   ACC_FATAL_200 <= 0
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_FATAL_200 <= 3
##   MOTOCICLISTA_200 <= 7
##   OTROS_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 8
##   VOLCADURA_100 > 0
##   ->  class SI  [0.529]
##
## Rule 12/13: (986.9/443.9, lift 1.2)
##   interseccion > 0
##   interseccion <= 2
##   metro_300 <= 2
##   rtp <= 0
##   ACC_C_LESION_200 <= 89
##   ACC_PRENSADO_200 <= 0
##   ATROPELLADO_FATAL_100 > 0
##   ATROPELLADO_FATAL_200 <= 2
##   OTROS_200 <= 0
##   VEH_ATRAPADO_100 <= 1
```

```
##      VOLCADURA_200 <= 24
##      -> class SI  [0.550]
##
## Rule 12/14: (587.8/247.2, lift 1.3)
##      interseccion <= 0
##      restaurant <= 4
##      rtp <= 0
##      ACC_C_LESION_100 <= 0
##      ACC_S_LESION_100 > 0
##      MOTOCICLISTA_100 > 0
##      -> class SI  [0.579]
##
## Rule 12/15: (334.9/129, lift 1.3)
##      hotel_300 <= 0
##      interseccion > 0
##      interseccion <= 2
##      restaurant_300 <= 4
##      rtp <= 0
##      turning_circle <= 0
##      ACC_C_LESION_100 <= 20
##      ACC_S_LESION_200 <= 241
##      ATROPELLADO_FATAL_200 <= 0
##      MOTOCICLISTA_100 > 3
##      OTROS_200 <= 0
##      PER_ATRAPADO_DESBARRANCADO_100 <= 0
##      -> class SI  [0.614]
##
## Rule 12/16: (416.3/141.4, lift 1.4)
##      interseccion > 0
##      restaurant <= 0
##      supermarket <= 0
##      ACC_C_LESION_200 <= 101
##      ACC_S_LESION_100 > 145
##      ACC_S_LESION_100 <= 211
##      ATROPELLADO_FATAL_100 <= 3
##      -> class SI  [0.660]
##
## Rule 12/17: (271.5/69.4, lift 1.6)
##      bar_300 <= 0
##      interseccion > 2
##      interseccion <= 10
##      traffic_signals <= 0
```

```
##     ACC_S_LESION_100 > 109
##     ACC_S_LESION_100 <= 140
##     VOLCADURA_200 <= 24
##     -> class SI  [0.743]
##
## Rule 12/18: (710.5/322, lift 1.2)
##     bar_300 <= 0
##     interseccion <= 0
##     restaurant_300 <= 8
##     rtp_300 <= 4
##     traffic_signals_300 <= 6
##     ACC_C_LESION_200 <= 38
##     ACC_FATAL_200 <= 0
##     MOTOCICLISTA_200 > 3
##     MOTOCICLISTA_200 <= 7
##     OTROS_100 <= 1
##     PER_ATRAPADO_DESBARRANCADO_100 <= 1
##     VOLCADURA_100 > 0
##     -> class SI  [0.547]
##
## Rule 12/19: (526.9/213.1, lift 1.3)
##     hospital_300 > 0
##     hotel_300 <= 0
##     interseccion > 0
##     metro_300 <= 2
##     restaurant_300 <= 4
##     rtp <= 0
##     school_300 <= 0
##     traffic_signals_300 <= 18
##     ACC_C_LESION_200 <= 101
##     ACC_FATAL_100 <= 0
##     ACC_FATAL_200 <= 1
##     ACC_S_LESION_100 > 0
##     ATROPELLADO_FATAL_200 <= 0
##     MOTOCICLISTA_100 <= 3
##     OTROS_200 <= 0
##     VEH_ATRAPADO_100 <= 1
##     -> class SI  [0.595]
##
## Rule 12/20: (480.8/180.1, lift 1.4)
##     cruce_peligroso <= 0
##     hotel_300 <= 0
```

```
##    interseccion > 0
##    metro_300 <= 2
##    restaurant_300 > 2
##    rtp <= 0
##    school_300 <= 0
##    traffic_signals <= 0
##    ACC_C_LESION_200 <= 101
##    ACC_PRENSADO_200 <= 0
##    ACC_S_LESION_100 <= 140
##    OTROS_200 > 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 10
##    VOLCADURA_200 <= 24
##    ->  class SI  [0.625]
##
## Rule 12/21: (240.9/91, lift 1.3)
##    hotel <= 0
##    interseccion <= 0
##    rtp <= 0
##    school_300 <= 4
##    traffic_signals_300 <= 24
##    ACC_C_LESION_100 > 0
##    ACC_FATAL_200 <= 1
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_200 > 343
##    MOTOCICLISTA_200 <= 11
##    PER_ATRAPADO_DESBARRANCADO_100 <= 5
##    PER_ATRAPADO_DESBARRANCADO_200 <= 8
##    ->  class SI  [0.621]
##
## Rule 12/22: (293.9/67.3, lift 1.7)
##    traffic_signals > 0
##    ->  class SI  [0.769]
##
## Rule 12/23: (210.6/83.4, lift 1.3)
##    interseccion <= 0
##    school_300 <= 4
##    traffic_signals_300 <= 16
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_200 <= 343
##    MOTOCICLISTA_200 <= 11
##    PER_ATRAPADO_DESBARRANCADO_100 > 3
##    PER_ATRAPADO_DESBARRANCADO_200 <= 8
```

```
##    ->  class SI  [0.603]
##
## Rule 12/24: (1695.3/777.1, lift 1.2)
##   hotel <= 0
##   museum <= 0
##   school_300 <= 4
##   traffic_signals_300 <= 22
##   ACC_C_LESION_100 > 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 0
##   MOTOCICLISTA_200 > 11
##   MOTOCICLISTA_200 <= 13
##    ->  class SI  [0.542]
##
## Rule 12/25: (6797.7/3146.4, lift 1.2)
##   crossing_300 <= 6
##   hotel_300 <= 0
##   interseccion > 2
##   metro_300 <= 0
##   school_300 <= 0
##   traffic_signals_300 <= 14
##   ACC_FATAL_200 <= 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_FATAL_100 <= 1
##   MOTOCICLISTA_100 <= 4
##   MOTOCICLISTA_200 <= 13
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   PER_ATRAPADO_DESBARRANCADO_200 <= 4
##   VEH_ATRAPADO_100 <= 1
##   VOLCADURA_100 <= 10
##   VOLCADURA_200 > 0
##    ->  class SI  [0.537]
##
## Rule 12/26: (119.5/27.2, lift 1.4)
##   crossing_300 <= 6
##   hospital_300 <= 0
##   interseccion > 2
##   restaurant_300 <= 0
##   rtp <= 0
##   school_300 <= 0
##   ACC_C_LESION_200 <= 91
##   ACC_FATAL_200 <= 0
```

```
##   ACC_PRENSADO_200 <= 0
##   ACC_S_LESION_100 <= 109
##   ATROPELLADO_FATAL_200 <= 2
##   MOTOCICLISTA_100 <= 0
##   MOTOCICLISTA_200 > 7
##   MOTOCICLISTA_200 <= 13
##   -> class NO  [0.768]
##
## Rule 12/27: (102.8/28.9, lift 1.5)
##   bar_300 <= 0
##   interseccion <= 0
##   restaurant_300 <= 8
##   rtp_300 <= 4
##   traffic_signals_300 <= 6
##   ACC_C_LESION_100 > 50
##   ACC_FATAL_200 <= 0
##   MOTOCICLISTA_200 <= 7
##   OTROS_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   VEH_ATRAPADO_100 <= 1
##   VOLCADURA_100 > 0
##   -> class SI  [0.714]
##
## Rule 12/28: (109.2/16, lift 1.8)
##   bar <= 0
##   interseccion > 0
##   restaurant_300 > 40
##   school <= 0
##   ACC_C_LESION_200 <= 101
##   -> class SI  [0.847]
##
## Rule 12/29: (98/28.7, lift 1.5)
##   hotel_300 <= 0
##   interseccion > 0
##   interseccion <= 2
##   ACC_C_LESION_200 <= 101
##   ACC_PRENSADO_200 <= 0
##   ACC_S_LESION_100 <= 145
##   PER_ATRAPADO_DESBARRANCADO_200 <= 10
##   VEH_ATRAPADO_200 > 2
##   -> class SI  [0.703]
##
```

```
## Rule 12/30: (294.1/121.9, lift 1.3)
##   interseccion > 2
##   restaurant_300 <= 0
##   ACC_FATAL_200 > 1
##   ACC_PRENSADO_200 <= 0
##   VOLCADURA_200 <= 24
##   -> class SI  [0.585]
##
## Rule 12/31: (205/76.8, lift 1.4)
##   crossing > 0
##   ACC_C_LESION_100 > 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_200 > 0
##   -> class SI  [0.624]
##
## Rule 12/32: (75.4/27.5, lift 1.4)
##   interseccion <= 0
##   traffic_signals_300 > 22
##   traffic_signals_300 <= 24
##   MOTOCICLISTA_200 <= 13
##   -> class SI  [0.632]
##
## Rule 12/33: (63.7/4.5, lift 2.0)
##   interseccion > 0
##   metrobus > 0
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.916]
##
## Rule 12/34: (88/28, lift 1.5)
##   hotel > 0
##   school_300 <= 4
##   traffic_signals_300 <= 24
##   MOTOCICLISTA_200 <= 13
##   -> class SI  [0.678]
##
## Rule 12/35: (61.8/14.1, lift 1.7)
##   interseccion > 0
##   ACC_C_LESION_200 <= 101
##   ATROPELLADO_FATAL_100 > 3
##   -> class SI  [0.764]
##
## Rule 12/36: (92.9/28.9, lift 1.5)
```

```
##    interseccion > 0
##    supermarket > 0
##    ACC_C_LESION_200 <= 101
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.686]
##
## Rule 12/37: (51.9/11.7, lift 1.7)
##    restaurant > 4
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.764]
##
## Default class: NO
##
## -----  Trial 13:  -----
##
## Rules:
##
## Rule 13/1: (93632/44663.5, lift 1.0)
##    ACC_S_LESION_200 <= 505
##    ->  class NO  [0.523]
##
## Rule 13/2: (10086.6/4349, lift 1.2)
##    crossing_300 <= 2
##    interseccion > 0
##    ACC_FATAL_200 <= 0
##    ACC_S_LESION_100 > 17
##    ACC_S_LESION_200 <= 375
##    ATROPELLADO_100 <= 18
##    ATROPELLADO_200 > 9
##    OTROS_100 <= 1
##    OTROS_200 <= 3
##    VEH_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.569]
##
## Rule 13/3: (16769.3/7839.1, lift 1.1)
##    bank <= 0
##    bar_300 <= 6
##    crossing_300 <= 8
##    hotel_300 <= 0
##    interseccion > 0
##    interseccion <= 2
##    metro_300 <= 0
```

```
##   rtp <= 0
##   school_300 <= 0
##   trolebus <= 0
##   ACC_C_LESION_200 <= 59
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 <= 13
##   ATROPELLADO_FATAL_100 <= 0
##   ATROPELLADO_FATAL_200 <= 2
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 3
##   VOLCADURA_100 <= 5
##   -> class SI  [0.533]
##
## Rule 13/4: (9588.6/4538.2, lift 1.1)
##   attraction <= 0
##   ACC_FATAL_200 > 0
##   ACC_S_LESION_100 > 4
##   FERROVIARIO_200 <= 0
##   MOTOCICLISTA_200 <= 13
##   OTROS_200 <= 3
##   -> class SI  [0.527]
##
## Rule 13/5: (53589.4/25552.9, lift 1.1)
##   interseccion > 0
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.523]
##
## Rule 13/6: (1721.3/804.4, lift 1.1)
##   interseccion <= 0
##   ACC_FATAL_200 > 1
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.533]
##
## Rule 13/7: (1121.4/398.6, lift 1.3)
##   bar <= 0
##   interseccion > 0
##   restaurant <= 0
##   rtp > 0
##   speed_camera_300 <= 0
##   ACC_S_LESION_100 > 17
##   OTROS_200 <= 4
##   VEH_DESBARRANCADO_100 <= 0
```

```
## -> class SI [0.644]
##
## Rule 13/8: (606.2/220.4, lift 1.3)
##   crossing_300 > 4
##   interseccion > 0
##   metrobus <= 0
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_100 <= 0
##   ACC_S_LESION_100 > 17
##   ACC_S_LESION_200 <= 375
##   VEH_ATRAPADO_100 <= 1
##   VEH_DESBARRANCADO_100 <= 0
##   -> class SI [0.636]
##
## Rule 13/9: (853.3/327.1, lift 1.3)
##   bar <= 0
##   crossing_300 <= 2
##   interseccion > 0
##   restaurant_300 <= 20
##   rtp <= 0
##   school_300 <= 4
##   ACC_FATAL_200 <= 0
##   ACC_PRENSADO_100 <= 0
##   ACC_S_LESION_100 > 17
##   ACC_S_LESION_100 <= 177
##   OTROS_200 <= 3
##   PER_ATRAPADO_DESBARRANCADO_200 <= 14
##   VEH_ATRAPADO_100 > 0
##   -> class SI [0.616]
##
## Rule 13/10: (31898.7/12860.4, lift 1.1)
##   attraction <= 0
##   interseccion <= 0
##   rtp <= 2
##   ACC_FATAL_200 <= 0
##   MOTOCICLISTA_100 <= 18
##   -> class NO [0.597]
##
## Rule 13/11: (281.8/69.8, lift 1.6)
##   traffic_signals > 0
##   -> class SI [0.750]
##
```

```
## Rule 13/12: (658.8/263.9, lift 1.1)
##   attraction <= 0
##   interseccion <= 0
##   rtp <= 2
##   traffic_signals <= 0
##   ACC_FATAL_200 > 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 4
##   ATROPELLADO_FATAL_100 <= 2
##   MOTOCICLISTA_200 > 13
##   ->  class NO  [0.599]
##
## Rule 13/13: (150.6/33.2, lift 1.6)
##   bank <= 0
##   interseccion > 0
##   speed_camera_300 <= 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 177
##   ACC_S_LESION_100 <= 211
##   ACC_S_LESION_200 <= 375
##   VEH_ATRAPADO_100 <= 1
##   ->  class SI  [0.776]
##
## Rule 13/14: (478.6/168.4, lift 1.4)
##   crossing_300 > 0
##   crossing_300 <= 2
##   interseccion > 0
##   metro <= 0
##   speed_camera_300 <= 0
##   trolebus <= 0
##   ACC_PRENSADO_100 <= 0
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 17
##   ACC_S_LESION_100 <= 177
##   ->  class SI  [0.647]
##
## Rule 13/15: (63.3/8.2, lift 1.8)
##   interseccion > 0
##   ACC_S_LESION_100 <= 17
##   ATROPELLADO_100 > 19
##   ATROPELLADO_FATAL_100 <= 0
##   VOLCADURA_100 <= 5
```

```
## -> class SI [0.859]
##
## Rule 13/16: (397.5/115.3, lift 1.5)
## cruce_peligroso <= 0
## interseccion > 0
## metrobus <= 0
## restaurant > 0
## -> class SI [0.709]
##
## Rule 13/17: (181.9/60.1, lift 1.4)
## bank <= 0
## interseccion > 0
## restaurant <= 0
## rtp <= 2
## OTROS_200 > 4
## -> class SI [0.668]
##
## Rule 13/18: (184.7/43.6, lift 1.6)
## cruce_peligroso > 0
## -> class SI [0.761]
##
## Rule 13/19: (161.1/60.3, lift 1.3)
## ACC_C_LESION_100 <= 0
## ACC_S_LESION_200 <= 0
## OTROS_100 <= 0
## VOLCADURA_100 > 0
## -> class SI [0.624]
##
## Rule 13/20: (165/54.9, lift 1.4)
## interseccion > 0
## school > 0
## ACC_S_LESION_100 > 0
## -> class SI [0.665]
##
## Rule 13/21: (44.2/11.5, lift 1.5)
## ACC_C_LESION_100 <= 0
## ACC_S_LESION_200 <= 0
## OTROS_100 > 0
## -> class SI [0.728]
##
## Rule 13/22: (60.1/4.7, lift 1.9)
## interseccion > 0
```

```
##    metrobus > 0
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.908]
##
## Rule 13/23: (26.9/5.2, lift 1.6)
##    interseccion <= 0
##    ACC_FATAL_200 <= 0
##    MOTOCICLISTA_100 > 18
##    ->  class SI  [0.784]
##
## Rule 13/24: (66.2/14.4, lift 1.6)
##    interseccion > 0
##    restaurant <= 0
##    ACC_FATAL_200 <= 1
##    ATROPELLADO_FATAL_100 > 3
##    ->  class SI  [0.775]
##
## Rule 13/25: (51.1/11.5, lift 1.6)
##    bar > 0
##    interseccion > 0
##    restaurant <= 0
##    ->  class SI  [0.764]
##
## Rule 13/26: (146.7/42, lift 1.5)
##    bank > 0
##    interseccion > 0
##    ->  class SI  [0.711]
##
## Rule 13/27: (95/37.8, lift 1.3)
##    metro_300 > 2
##    ACC_S_LESION_100 <= 17
##    ->  class SI  [0.600]
##
## Rule 13/28: (53.6/22.2, lift 1.2)
##    attraction > 0
##    ->  class SI  [0.583]
##
## Default class: NO
##
## -----  Trial 14:  -----
##
## Rules:
```

```
##
## Rule 14/1: (71309.5/34356, lift 1.1)
##   ACC_FATAL_200 <= 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.518]
##
## Rule 14/2: (14629.8/7265.1, lift 1.0)
##   ACC_FATAL_200 > 0
##   ->  class NO  [0.503]
##
## Rule 14/3: (8888.2/1768.1, lift 1.6)
##   ACC_S_LESION_100 <= 0
##   ->  class NO  [0.801]
##
## Rule 14/4: (22689.3/10363.3, lift 1.1)
##   interseccion > 2
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.543]
##
## Rule 14/5: (1669.6/754.5, lift 1.1)
##   hospital_300 <= 4
##   school_300 > 0
##   traffic_signals_300 <= 14
##   ACC_FATAL_200 > 0
##   ACC_S_LESION_100 > 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 10
##   ->  class SI  [0.548]
##
## Rule 14/6: (222.6/87.5, lift 1.2)
##   cruce_peligroso <= 0
##   ACC_FATAL_200 > 0
##   PER_ATRAPADO_DESBARRANCADO_200 > 10
##   ->  class SI  [0.606]
##
## Rule 14/7: (273.5/69.9, lift 1.5)
##   traffic_signals > 0
##   ->  class SI  [0.743]
##
## Default class: NO
##
## -----  Trial 15:  -----
##
```

```
## Rules:
##
## Rule 15/1: (89302.5/43752, lift 1.0)
##   ACC_S_LESION_200 > 0
##   ->  class NO  [0.510]
##
## Rule 15/2: (60025/26515.2, lift 1.1)
##   bar_300 <= 0
##   interseccion <= 2
##   rtp <= 0
##   traffic_signals <= 0
##   trolebus <= 0
##   ATROPELLADO_200 <= 136
##   MOTOCICLISTA_200 <= 12
##   PER_ATRAPADO_DESBARRANCADO_100 <= 3
##   VEH_ATRAPADO_100 <= 1
##   ->  class NO  [0.558]
##
## Rule 15/3: (45562.2/21924.4, lift 1.1)
##   interseccion > 0
##   turning_circle <= 0
##   ATROPELLADO_100 > 0
##   ->  class SI  [0.519]
##
## Rule 15/4: (11398/5090.4, lift 1.2)
##   interseccion > 0
##   turning_circle <= 0
##   ACC_C_LESION_200 > 38
##   ACC_S_LESION_100 <= 344
##   ACC_S_LESION_200 <= 399
##   ATROPELLADO_100 > 0
##   VEH_ATRAPADO_100 <= 1
##   VEH_ATRAPADO_200 <= 2
##   ->  class SI  [0.553]
##
## Rule 15/5: (21088.8/7621.8, lift 1.2)
##   bar_300 <= 0
##   traffic_signals <= 0
##   ATROPELLADO_100 <= 0
##   MOTOCICLISTA_200 <= 12
##   VEH_ATRAPADO_100 <= 1
##   ->  class NO  [0.639]
```

```
##
## Default class: SI
##
## -----  Trial 16:  -----
##
## Rules:
##
## Rule 16/1: (94072.7/45267.3, lift 1.0)
##   MOTOCICLISTA_100 <= 16
##   ->  class NO  [0.519]
##
## Rule 16/2: (12824.6/5904.3, lift 1.1)
##   interseccion > 0
##   interseccion <= 2
##   metro_300 <= 2
##   rtp_300 <= 6
##   ACC_S_LESION_100 > 9
##   MOTOCICLISTA_200 <= 31
##   OTROS_100 <= 1
##   VEH_ATRAPADO_200 <= 3
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.540]
##
## Rule 16/3: (3072.9/1290.4, lift 1.2)
##   interseccion > 2
##   rtp_300 <= 10
##   school <= 0
##   traffic_signals_300 <= 22
##   ACC_C_LESION_200 > 42
##   ACC_S_LESION_100 > 9
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.580]
##
## Rule 16/4: (1937.9/817.5, lift 1.2)
##   hotel_300 <= 0
##   interseccion > 2
##   rtp_300 <= 10
##   traffic_signals_300 <= 22
##   ACC_C_LESION_200 <= 35
##   ACC_PRENSADO_100 <= 0
##   ACC_S_LESION_100 > 9
##   ACC_S_LESION_100 <= 16
```

```
##   ATROPELLADO_100 <= 8
##   ATROPELLADO_FATAL_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   VOLCADURA_100 <= 0
##   -> class SI  [0.578]
##
## Rule 16/5: (1564.9/684.1, lift 1.2)
##   cruce_peligroso <= 0
##   interseccion <= 0
##   metrobus <= 0
##   rtp <= 2
##   school <= 0
##   school_300 <= 4
##   ACC_FATAL_200 > 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_FATAL_200 > 1
##   -> class SI  [0.563]
##
## Rule 16/6: (11803.5/5445.5, lift 1.1)
##   interseccion > 0
##   interseccion <= 2
##   rtp <= 0
##   rtp_300 <= 10
##   trolebus <= 0
##   ACC_S_LESION_100 > 9
##   ACC_S_LESION_100 <= 333
##   MOTOCICLISTA_200 <= 6
##   VEH_DESBARRANCADO_100 <= 0
##   -> class SI  [0.539]
##
## Rule 16/7: (1771.5/819.7, lift 1.1)
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 <= 0
##   -> class SI  [0.537]
##
## Rule 16/8: (86141.2/42459.2, lift 1.1)
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.507]
##
## Rule 16/9: (622.7/237.4, lift 1.3)
##   interseccion > 0
##   interseccion <= 2
```

```
##   rtp <= 0
##   rtp_300 <= 10
##   school <= 0
##   trolebus <= 0
##   ACC_S_LESION_100 > 9
##   ACC_S_LESION_100 <= 333
##   MOTOCICLISTA_200 > 15
##   MOTOCICLISTA_200 <= 31
##   OTROS_200 <= 5
##   VEH_ATRAPADO_200 <= 3
##   VEH_DESBARRANCADO_100 <= 0
##   -> class SI  [0.618]
##
## Rule 16/10: (653.2/239.1, lift 1.3)
##   interseccion > 0
##   interseccion <= 6
##   restaurant <= 0
##   rtp > 0
##   rtp_300 <= 10
##   ACC_S_LESION_100 > 9
##   ACC_S_LESION_100 <= 333
##   MOTOCICLISTA_200 <= 31
##   VEH_DESBARRANCADO_100 <= 0
##   -> class SI  [0.634]
##
## Rule 16/11: (181.2/56.3, lift 1.4)
##   interseccion > 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 9
##   ATROPELLADO_100 > 10
##   -> class SI  [0.687]
##
## Rule 16/12: (376/120.2, lift 1.4)
##   cruce_peligroso <= 0
##   interseccion > 0
##   metrobus <= 0
##   restaurant > 0
##   -> class SI  [0.679]
##
## Rule 16/13: (798.5/326.5, lift 1.2)
##   interseccion > 6
##   ACC_S_LESION_100 > 9
```

```
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.591]
##
## Rule 16/14: (336.7/135, lift 1.2)
##   interseccion > 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 9
##   ATROPELLADO_FATAL_100 <= 0
##   MOTOCICLISTA_100 > 2
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 5
##   ->  class SI  [0.598]
##
## Rule 16/15: (347.5/148.1, lift 1.2)
##   interseccion > 0
##   ACC_S_LESION_100 <= 9
##   VEH_DESBARRANCADO_100 > 0
##   ->  class SI  [0.574]
##
## Rule 16/16: (346.3/95.7, lift 1.5)
##   bar_300 > 0
##   interseccion > 2
##   rtp_300 <= 10
##   traffic_signals_300 <= 22
##   ACC_S_LESION_100 > 9
##   ->  class SI  [0.722]
##
## Rule 16/17: (223.6/71.8, lift 1.4)
##   rtp > 2
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.677]
##
## Rule 16/18: (162.9/58.8, lift 1.3)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_200 <= 0
##   VOLCADURA_100 > 0
##   ->  class SI  [0.637]
##
## Rule 16/19: (114.3/36.9, lift 1.4)
##   interseccion > 0
##   metro_300 > 2
##   rtp_300 > 10
```

```
##   ACC_FATAL_200 <= 2
##   ACC_S_LESION_100 > 9
##   VOLCADURA_200 <= 34
##   -> class SI  [0.674]
##
## Rule 16/20: (231.6/98.7, lift 1.2)
##   rtp_300 > 10
##   ACC_FATAL_200 > 2
##   VOLCADURA_200 <= 34
##   -> class SI  [0.573]
##
## Rule 16/21: (42.5/3.6, lift 1.9)
##   interseccion > 2
##   ACC_C_LESION_200 <= 42
##   ACC_S_LESION_100 > 65
##   ATROPELLADO_100 <= 8
##   ATROPELLADO_FATAL_100 <= 0
##   -> class SI  [0.897]
##
## Rule 16/22: (105.7/37.8, lift 1.3)
##   ACC_C_LESION_100 <= 0
##   ACC_S_LESION_200 <= 0
##   MOTOCICLISTA_100 > 0
##   VOLCADURA_100 <= 0
##   -> class SI  [0.640]
##
## Rule 16/23: (262.7/70.7, lift 1.5)
##   traffic_signals > 0
##   -> class SI  [0.729]
##
## Rule 16/24: (55.4/13.7, lift 1.5)
##   interseccion > 0
##   rtp_300 > 10
##   VEH_ATRAPADO_200 > 2
##   -> class SI  [0.744]
##
## Rule 16/25: (35.7/8.3, lift 1.6)
##   interseccion > 0
##   ACC_S_LESION_100 <= 9
##   PER_ATRAPADO_DESBARRANCADO_100 > 2
##   -> class SI  [0.753]
##
```

```
## Rule 16/26: (178.2/42, lift 1.6)
##  cruce_peligroso > 0
##  ->  class SI  [0.761]
##
## Rule 16/27: (27.2/4.1, lift 1.7)
##  interseccion <= 0
##  ACC_FATAL_200 <= 0
##  ACC_S_LESION_100 > 367
##  ->  class SI  [0.825]
##
## Rule 16/28: (51.6/17, lift 1.4)
##  school > 0
##  ACC_FATAL_200 > 0
##  ->  class SI  [0.664]
##
## Rule 16/29: (49.2/10, lift 1.6)
##  interseccion > 0
##  metro > 0
##  ->  class SI  [0.785]
##
## Default class: NO
##
## -----  Trial 17:  -----
##
## Rules:
##
## Rule 17/1: (86287.5/41410.6, lift 1.1)
##  ACC_S_LESION_100 > 0
##  ->  class SI  [0.520]
##
## Rule 17/2: (8222.5/1807.2, lift 1.5)
##  ACC_S_LESION_100 <= 0
##  ->  class NO  [0.780]
##
## Default class: NO
##
## -----  Trial 18:  -----
##
## Rules:
##
## Rule 18/1: (54029.3/26575.1, lift 1.1)
##  interseccion > 0
```

```
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.508]
##
## Rule 18/2: (37278.3/15850.2, lift 1.1)
##   hotel_300 <= 10
##   interseccion <= 0
##   traffic_signals_300 <= 30
##   trolebus <= 0
##   ATROPELLADO_100 <= 63
##   ->  class NO  [0.575]
##
## Rule 18/3: (7833.5/1666.7, lift 1.5)
##   ACC_S_LESION_100 <= 0
##   ->  class NO  [0.787]
##
## Rule 18/4: (451.9/182.8, lift 1.3)
##   hotel_300 <= 10
##   interseccion <= 0
##   traffic_signals_300 <= 24
##   trolebus <= 0
##   ATROPELLADO_100 > 63
##   ->  class SI  [0.595]
##
## Rule 18/5: (382/145.4, lift 1.3)
##   trolebus > 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.619]
##
## Rule 18/6: (135.4/47.4, lift 1.4)
##   hotel_300 > 10
##   traffic_signals_300 <= 24
##   ->  class SI  [0.648]
##
## Rule 18/7: (62.1/18.7, lift 1.5)
##   interseccion <= 0
##   traffic_signals_300 > 30
##   ->  class SI  [0.693]
##
## Default class: NO
##
## -----  Trial 19:  -----
##
```

```
## Rules:
##
## Rule 19/1: (90375.4/41903.5, lift 1.0)
##   cruce_peligroso <= 0
##   metrobus <= 0
##   nightclub_300 <= 4
##   rtp <= 0
##   traffic_signals <= 0
##   trolebus <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 5
##   ->  class NO  [0.536]
##
## Rule 19/2: (2752.2/1216.1, lift 1.2)
##   rtp > 0
##   ->  class SI  [0.558]
##
## Rule 19/3: (577.5/238.5, lift 1.3)
##   cruce_peligroso <= 0
##   metrobus <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 > 5
##   ->  class SI  [0.587]
##
## Rule 19/4: (365.5/140.7, lift 1.3)
##   trolebus > 0
##   ACC_S_LESION_100 > 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 5
##   ->  class SI  [0.614]
##
## Rule 19/5: (1643.6/759.9, lift 1.1)
##   crossing_300 <= 2
##   metro_300 <= 0
##   restaurant_300 <= 0
##   rtp_300 <= 12
##   ACC_C_LESION_200 > 5
##   ACC_FATAL_100 <= 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 13
##   ACC_S_LESION_200 > 5
##   ACC_S_LESION_200 <= 14
##   ATROPELLADO_200 > 0
##   ATROPELLADO_200 <= 13
```

```
##    ATROPELLADO_FATAL_100 <= 0
##    OTROS_100 <= 0
##    VEH_ATRAPADO_200 <= 0
##    ->  class SI  [0.538]
##
## Rule 19/6: (199.1/24.7, lift 1.9)
##    traffic_signals > 0
##    ->  class SI  [0.872]
##
## Rule 19/7: (136.7/40.9, lift 1.5)
##    cruce_peligroso <= 0
##    metrobus > 0
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.698]
##
## Rule 19/8: (158.7/34.1, lift 1.7)
##    cruce_peligroso > 0
##    ->  class SI  [0.782]
##
## Rule 19/9: (667.7/300.9, lift 1.2)
##    VEH_ATRAPADO_100 > 1
##    ->  class SI  [0.549]
##
## Rule 19/10: (482/214.5, lift 1.2)
##    rtp <= 0
##    ACC_S_LESION_100 > 0
##    ACC_S_LESION_200 <= 20
##    ATROPELLADO_200 > 13
##    ->  class SI  [0.555]
##
## Rule 19/11: (11059.5/5436.9, lift 1.1)
##    ACC_S_LESION_100 > 0
##    OTROS_100 > 0
##    ->  class SI  [0.508]
##
## Rule 19/12: (4879.6/2388, lift 1.1)
##    crossing_300 > 2
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.511]
##
## Rule 19/13: (31.9/5.3, lift 1.7)
##    nightclub_300 > 4
```

```
##   ->  class SI  [0.814]
##
## Default class: NO
##
## -----  Trial 20:  -----
##
## Rules:
##
## Rule 20/1: (67386.7/32082.6, lift 1.1)
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 > 20
##   ->  class SI  [0.524]
##
## Rule 20/2: (22538.6/8418.3, lift 1.2)
##   interseccion <= 4
##   rtp <= 0
##   school_300 <= 6
##   supermarket <= 0
##   ACC_S_LESION_200 <= 20
##   ATROPELLADO_200 <= 14
##   ->  class NO  [0.626]
##
## Rule 20/3: (10083.6/2286.7, lift 1.5)
##   crossing_300 <= 4
##   ACC_C_LESION_100 <= 1
##   ACC_S_LESION_100 <= 1
##   ->  class NO  [0.773]
##
## Rule 20/4: (1391.1/641.9, lift 1.1)
##   interseccion > 4
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 <= 20
##   ATROPELLADO_200 <= 14
##   ->  class SI  [0.539]
##
## Rule 20/5: (734.9/299.3, lift 1.2)
##   crossing_300 <= 4
##   interseccion > 0
##   ACC_C_LESION_100 > 1
##   ACC_S_LESION_100 <= 1
##   ->  class SI  [0.593]
##
```

```
## Rule 20/6: (266.4/109.5, lift 1.2)
##   ACC_S_LESION_200 <= 20
##   ATROPELLADO_200 > 14
##   ATROPELLADO_200 <= 19
##   -> class SI  [0.588]
##
## Rule 20/7: (2416.4/979.7, lift 1.2)
##   rtp > 0
##   ACC_S_LESION_100 > 1
##   -> class SI  [0.594]
##
## Rule 20/8: (6226.9/757.4, lift 1.7)
##   interseccion <= 0
##   ACC_S_LESION_100 <= 1
##   -> class NO  [0.878]
##
## Rule 20/9: (1715.8/771.9, lift 1.1)
##   crossing_300 <= 4
##   interseccion > 0
##   rtp <= 0
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 <= 1
##   ACC_S_LESION_200 <= 35
##   ATROPELLADO_FATAL_200 <= 0
##   OTROS_100 <= 0
##   -> class SI  [0.550]
##
## Rule 20/10: (86.5/26.6, lift 1.3)
##   ACC_S_LESION_200 <= 20
##   ATROPELLADO_200 > 19
##   ATROPELLADO_200 <= 24
##   -> class NO  [0.688]
##
## Rule 20/11: (466.7/201.7, lift 1.2)
##   school_300 > 6
##   -> class SI  [0.567]
##
## Rule 20/12: (26857.1/12506.2, lift 1.1)
##   ATROPELLADO_200 > 24
##   -> class SI  [0.534]
##
## Rule 20/13: (57.3/20.7, lift 1.2)
```

```
##   interseccion > 10
##   ->  class NO  [0.633]
##
## Default class: NO
##
## -----  Trial 21:  -----
##
## Rules:
##
## Rule 21/1: (93412.6/43438.4, lift 1.0)
##   traffic_signals <= 0
##   ->  class NO  [0.535]
##
## Rule 21/2: (3371.4/1101.2, lift 1.5)
##   interseccion > 2
##   school_300 <= 6
##   ACC_C_LESION_100 > 13
##   ->  class SI  [0.673]
##
## Rule 21/3: (2181.6/802.4, lift 1.4)
##   rtp > 0
##   turning_circle <= 0
##   ACC_S_LESION_100 > 1
##   ->  class SI  [0.632]
##
## Rule 21/4: (4338.7/1934.3, lift 1.2)
##   crossing_300 <= 2
##   nightclub_300 <= 0
##   restaurant <= 0
##   restaurant_300 <= 10
##   supermarket <= 0
##   turning_circle <= 0
##   ACC_C_LESION_100 <= 90
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 1
##   ATROPELLADO_200 > 11
##   FERROVIARIO_100 <= 0
##   MOTOCICLISTA_200 > 2
##   OTROS_200 <= 2
##   PER_ATRAPADO_DESBARRANCADO_200 > 1
##   VEH_ATRAPADO_200 <= 2
##   ->  class SI  [0.554]
```

```
##
## Rule 21/5: (2377.2/1075.5, lift 1.2)
##   hotel_300 <= 0
##   interseccion > 2
##   metro_300 <= 0
##   restaurant_300 <= 6
##   rtp <= 0
##   school_300 <= 4
##   ACC_C_LESION_100 <= 13
##   ACC_S_LESION_100 > 1
##   ATROPELLADO_100 <= 0
##   ATROPELLADO_200 <= 10
##   OTROS_200 <= 2
##   PER_ATRAPADO_DESBARRANCADO_200 <= 6
##   ->  class SI  [0.548]
##
## Rule 21/6: (1951.7/750.4, lift 1.3)
##   interseccion > 0
##   supermarket <= 0
##   ACC_S_LESION_100 <= 86
##   ACC_S_LESION_200 > 80
##   ATROPELLADO_100 > 6
##   MOTOCICLISTA_200 > 1
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_200 > 3
##   ->  class SI  [0.615]
##
## Rule 21/7: (1766.8/811.6, lift 1.2)
##   crossing_300 <= 0
##   interseccion > 2
##   restaurant <= 0
##   ACC_C_LESION_100 <= 13
##   ATROPELLADO_100 > 0
##   ATROPELLADO_200 <= 10
##   MOTOCICLISTA_100 > 0
##   MOTOCICLISTA_100 <= 1
##   OTROS_200 <= 2
##   ->  class SI  [0.541]
##
## Rule 21/8: (829.8/321.3, lift 1.3)
##   bar <= 0
##   restaurant > 0
```

```
##   ACC_S_LESION_100 > 1
##   ->  class SI  [0.612]
##
## Rule 21/9: (948.1/366.3, lift 1.3)
##   bar_300 <= 0
##   crossing_300 > 0
##   hotel_300 <= 2
##   interseccion > 2
##   restaurant_300 <= 12
##   supermarket <= 0
##   ACC_S_LESION_100 > 1
##   ->  class SI  [0.613]
##
## Rule 21/10: (515.6/224.2, lift 1.2)
##   interseccion > 0
##   interseccion <= 2
##   ACC_S_LESION_100 > 1
##   MOTOCICLISTA_200 <= 1
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_200 > 3
##   ->  class SI  [0.565]
##
## Rule 21/11: (2614.4/1111.2, lift 1.1)
##   bank <= 0
##   crossing_300 <= 18
##   hotel <= 0
##   interseccion > 0
##   interseccion <= 2
##   restaurant <= 0
##   restaurant_300 <= 18
##   rtp <= 0
##   supermarket <= 0
##   traffic_signals <= 0
##   ATROPELLADO_100 <= 6
##   MOTOCICLISTA_200 > 1
##   VOLCADURA_200 > 3
##   ->  class NO  [0.575]
##
## Rule 21/12: (126/35.4, lift 1.6)
##   hotel_300 <= 2
##   interseccion <= 0
##   restaurant <= 0
```

```
##   rtp <= 0
##   ACC_C_LESION_100 > 31
##   ACC_C_LESION_100 <= 44
##   MOTOCICLISTA_200 <= 2
##   VOLCADURA_100 <= 12
##   ->  class SI  [0.716]
##
## Rule 21/13: (184.4/22.3, lift 1.9)
##   traffic_signals > 0
##   ->  class SI  [0.875]
##
## Rule 21/14: (164.9/43.1, lift 1.6)
##   interseccion > 0
##   nightclub_300 > 0
##   school <= 0
##   ACC_S_LESION_100 > 1
##   VOLCADURA_200 <= 3
##   ->  class SI  [0.736]
##
## Rule 21/15: (623.3/203.3, lift 1.5)
##   hospital_300 > 0
##   interseccion > 2
##   ACC_S_LESION_100 > 1
##   ->  class SI  [0.673]
##
## Rule 21/16: (297.8/119.6, lift 1.3)
##   interseccion > 0
##   interseccion <= 2
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 > 2
##   VOLCADURA_200 <= 3
##   ->  class SI  [0.598]
##
## Rule 21/17: (226.8/83.2, lift 1.4)
##   bar_300 <= 0
##   hospital_300 <= 0
##   interseccion > 2
##   metro_300 <= 0
##   restaurant_300 <= 12
##   school_300 > 2
##   school_300 <= 4
##   ACC_C_LESION_100 <= 13
```

```
##   ACC_C_LESION_200 <= 87
##   ACC_S_LESION_100 > 1
##   MOTOCICLISTA_100 <= 1
##   -> class SI  [0.632]
##
## Rule 21/18: (121.9/40.1, lift 1.4)
##   interseccion <= 0
##   ACC_C_LESION_200 > 1
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 <= 2
##   -> class SI  [0.668]
##
## Rule 21/19: (435.4/112.5, lift 1.6)
##   bar_300 > 0
##   interseccion > 2
##   school_300 <= 6
##   ACC_S_LESION_100 > 1
##   -> class SI  [0.741]
##
## Rule 21/20: (143.3/38, lift 1.6)
##   interseccion > 0
##   rtp <= 0
##   ACC_C_LESION_100 <= 148
##   OTROS_200 > 4
##   -> class SI  [0.731]
##
## Rule 21/21: (132.8/42.7, lift 1.5)
##   crossing_300 > 12
##   cruce_peligroso <= 0
##   metro_300 <= 2
##   restaurant_300 <= 10
##   rtp <= 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 1
##   MOTOCICLISTA_200 > 2
##   -> class SI  [0.676]
##
## Rule 21/22: (437.7/188.3, lift 1.2)
##   interseccion <= 0
##   restaurant <= 0
##   rtp <= 0
##   rtp_300 <= 22
```

```
##    ACC_C_LESION_200 > 1
##    ACC_C_LESION_200 <= 6
##    ACC_S_LESION_100 > 1
##    MOTOCICLISTA_200 > 2
##    ->  class SI  [0.569]
##
## Rule 21/23: (224.2/91.8, lift 1.3)
##    crossing_300 <= 18
##    interseccion > 0
##    interseccion <= 2
##    ACC_S_LESION_100 > 1
##    VEH_DESBARRANCADO_100 > 0
##    VOLCADURA_200 <= 3
##    ->  class SI  [0.590]
##
## Rule 21/24: (177.7/71.1, lift 1.3)
##    interseccion <= 0
##    ACC_C_LESION_100 <= 31
##    MOTOCICLISTA_200 <= 2
##    VOLCADURA_100 > 8
##    ->  class SI  [0.599]
##
## Rule 21/25: (195.3/70.3, lift 1.4)
##    bank <= 0
##    restaurant <= 0
##    supermarket > 0
##    ACC_S_LESION_100 > 1
##    ->  class SI  [0.639]
##
## Rule 21/26: (72.7/16.1, lift 1.7)
##    interseccion > 0
##    interseccion <= 2
##    ATROPELLADO_FATAL_100 > 2
##    VOLCADURA_200 <= 3
##    ->  class SI  [0.772]
##
## Rule 21/27: (133.9/37.8, lift 1.5)
##    crossing > 0
##    metro_300 <= 2
##    ACC_S_LESION_100 > 1
##    MOTOCICLISTA_200 > 2
##    ->  class SI  [0.715]
```

```
##
## Rule 21/28: (106.6/28.5, lift 1.6)
##   bank <= 0
##   metro_300 <= 2
##   PER_ATRAPADO_DESBARRANCADO_200 > 18
##   ->  class SI  [0.729]
##
## Rule 21/29: (93.9/27, lift 1.5)
##   hotel_300 > 2
##   interseccion <= 2
##   ACC_S_LESION_100 > 1
##   MOTOCICLISTA_200 <= 2
##   ->  class SI  [0.708]
##
## Rule 21/30: (150.6/50.4, lift 1.4)
##   bar > 0
##   ->  class SI  [0.663]
##
## Rule 21/31: (158.8/53.7, lift 1.4)
##   interseccion > 0
##   school > 0
##   ->  class SI  [0.660]
##
## Rule 21/32: (328.9/121.8, lift 1.4)
##   bank > 0
##   bar <= 0
##   ACC_S_LESION_100 > 1
##   ->  class SI  [0.629]
##
## Rule 21/33: (66.5/24.6, lift 1.4)
##   interseccion > 0
##   ACC_FATAL_100 > 0
##   ACC_S_LESION_100 <= 1
##   ->  class SI  [0.627]
##
## Rule 21/34: (143.6/28, lift 1.7)
##   cruce_peligroso > 0
##   ->  class SI  [0.801]
##
## Rule 21/35: (52.3/11.3, lift 1.7)
##   hotel > 0
##   interseccion > 0
```

```
##    -> class SI  [0.774]
##
## Rule 21/36: (75.5/4.6, lift 2.0)
##   interseccion > 0
##   restaurant_300 > 48
##   -> class SI  [0.928]
##
## Rule 21/37: (64.5/5.7, lift 1.9)
##   interseccion > 2
##   trolebus > 0
##   -> class SI  [0.899]
##
## Default class: NO
##
## -----  Trial 22:  -----
##
## Rules:
##
## Rule 22/1: (92561.6/45420.6, lift 1.0)
##   cruce_peligroso <= 0
##   traffic_signals <= 0
##   -> class NO  [0.509]
##
## Rule 22/2: (55154.6/24317, lift 1.2)
##   interseccion > 0
##   turning_circle <= 0
##   ACC_S_LESION_100 > 0
##   VEH_DESBARRANCADO_200 <= 1
##   -> class SI  [0.559]
##
## Rule 22/3: (1763.4/756.7, lift 1.2)
##   bank <= 0
##   interseccion <= 0
##   restaurant <= 0
##   restaurant_300 <= 2
##   rtp <= 0
##   school_300 <= 2
##   turning_circle <= 0
##   ACC_C_LESION_100 > 0
##   ACC_C_LESION_200 > 5
##   ACC_PRENSADO_100 <= 0
##   ACC_PRENSADO_200 <= 1
```

```
##    ACC_S_LESION_100 > 2
##    ATROPELLADO_100 > 0
##    ATROPELLADO_200 <= 7
##    MOTOCICLISTA_100 > 0
##    MOTOCICLISTA_100 <= 11
##    VEH_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.571]
##
## Rule 22/4: (977.3/421.1, lift 1.2)
##    cruce_peligroso <= 0
##    interseccion <= 0
##    metro_300 <= 2
##    rtp <= 0
##    school_300 <= 4
##    traffic_signals_300 > 6
##    traffic_signals_300 <= 16
##    turning_circle <= 0
##    ACC_C_LESION_100 > 0
##    ACC_C_LESION_200 > 5
##    ACC_C_LESION_200 <= 174
##    ACC_FATAL_200 <= 1
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 2
##    ATROPELLADO_100 > 0
##    OTROS_200 <= 3
##    PER_ATRAPADO_DESBARRANCADO_200 <= 1
##    VEH_ATRAPADO_200 <= 1
##    ->  class SI  [0.569]
##
## Rule 22/5: (1817/824.4, lift 1.1)
##    rtp <= 0
##    rtp_300 > 4
##    school_300 <= 0
##    ACC_S_LESION_100 <= 18
##    ATROPELLADO_100 > 5
##    OTROS_100 <= 0
##    ->  class NO  [0.546]
##
## Rule 22/6: (1274.7/580.7, lift 1.1)
##    interseccion <= 0
##    rtp <= 0
##    school_300 <= 4
```

```
##   traffic_signals_300 <= 16
##   ACC_C_LESION_100 <= 126
##   ACC_FATAL_200 > 1
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 2
##   MOTOCICLISTA_200 <= 35
##   VEH_ATRAPADO_200 <= 1
##   ->  class SI  [0.544]
##
## Rule 22/7: (1511/603.5, lift 1.2)
##   cinema <= 0
##   school_300 <= 4
##   traffic_signals_300 <= 16
##   turning_circle <= 0
##   ACC_C_LESION_100 > 0
##   ACC_C_LESION_200 > 5
##   ACC_C_LESION_200 <= 174
##   ACC_PRENSADO_100 <= 0
##   ACC_PRENSADO_200 <= 1
##   OTROS_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 > 2
##   VEH_ATRAPADO_200 <= 1
##   ->  class SI  [0.600]
##
## Rule 22/8: (1353.5/527.7, lift 1.3)
##   bank <= 0
##   rtp <= 0
##   school_300 <= 4
##   traffic_signals_300 <= 6
##   ACC_C_LESION_200 <= 174
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_100 <= 0
##   ACC_S_LESION_100 > 2
##   ATROPELLADO_100 > 0
##   ATROPELLADO_FATAL_200 <= 5
##   MOTOCICLISTA_100 <= 11
##   MOTOCICLISTA_200 > 12
##   OTROS_100 <= 1
##   OTROS_200 <= 3
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   VEH_ATRAPADO_200 <= 1
##   VEH_DESBARRANCADO_100 <= 0
```

```
##    ->  class SI  [0.610]
##
## Rule 22/9: (1096.1/426.1, lift 1.3)
##   metro_300 <= 2
##   school_300 <= 4
##   traffic_signals_300 <= 16
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 77
##   ATROPELLADO_FATAL_200 <= 5
##   MOTOCICLISTA_100 <= 11
##   MOTOCICLISTA_200 <= 15
##   OTROS_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   PER_ATRAPADO_DESBARRANCADO_200 > 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 10
##   VEH_ATRAPADO_200 <= 1
##   VEH_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.611]
##
## Rule 22/10: (5222.8/2266, lift 1.2)
##   traffic_signals_300 <= 16
##   turning_circle <= 0
##   ACC_C_LESION_100 > 0
##   ACC_C_LESION_200 > 5
##   ACC_C_LESION_200 <= 174
##   ACC_FATAL_200 > 0
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_100 <= 0
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 2
##   ATROPELLADO_100 > 0
##   ATROPELLADO_200 > 7
##   ATROPELLADO_FATAL_200 <= 5
##   MOTOCICLISTA_100 <= 11
##   OTROS_200 <= 3
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   VEH_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.566]
##
## Rule 22/11: (114.2/35.7, lift 1.4)
##   interseccion > 0
```

```
##   interseccion <= 2
##   traffic_signals <= 0
##   ACC_C_LESION_100 <= 148
##   ACC_FATAL_200 <= 2
##   VOLCADURA_200 > 24
##   VOLCADURA_200 <= 28
##   ->  class NO  [0.684]
##
## Rule 22/12: (220/74.5, lift 1.3)
##   rtp <= 0
##   rtp_300 > 4
##   school_300 <= 0
##   ACC_S_LESION_100 <= 18
##   ATROPELLADO_100 > 1
##   ATROPELLADO_100 <= 10
##   MOTOCICLISTA_100 <= 3
##   VEH_DESBARRANCADO_200 > 0
##   VOLCADURA_100 <= 2
##   ->  class NO  [0.660]
##
## Rule 22/13: (22894.4/9521.3, lift 1.2)
##   interseccion > 0
##   rtp_300 <= 4
##   turning_circle <= 0
##   ATROPELLADO_100 > 1
##   VEH_DESBARRANCADO_200 <= 1
##   ->  class SI  [0.584]
##
## Rule 22/14: (268/108, lift 1.2)
##   bar_300 <= 2
##   crossing <= 2
##   school_300 > 4
##   school_300 <= 6
##   ACC_S_LESION_100 <= 18
##   ->  class NO  [0.596]
##
## Rule 22/15: (241.8/70.6, lift 1.5)
##   restaurant > 0
##   school_300 <= 4
##   traffic_signals_300 <= 16
##   ACC_C_LESION_100 > 0
##   ACC_C_LESION_200 <= 174
```

```
##     ACC_FATAL_100 <= 2
##     ATROPELLADO_100 > 0
##     MOTOCICLISTA_100 <= 11
##     PER_ATRAPADO_DESBARRANCADO_200 <= 1
##     VEH_ATRAPADO_200 <= 1
##     ->  class SI  [0.706]
##
## Rule 22/16: (45.1/10.6, lift 1.6)
##     interseccion <= 0
##     rtp <= 0
##     MOTOCICLISTA_200 > 35
##     ->  class SI  [0.753]
##
## Rule 22/17: (1249/589.9, lift 1.1)
##     VEH_DESBARRANCADO_100 > 0
##     ->  class NO  [0.528]
##
## Rule 22/18: (74.6/21.7, lift 1.5)
##     interseccion <= 0
##     rtp <= 0
##     school_300 <= 4
##     traffic_signals_300 <= 16
##     ACC_C_LESION_100 > 126
##     ACC_FATAL_100 <= 2
##     ACC_PRENSADO_200 <= 1
##     OTROS_100 <= 1
##     ->  class SI  [0.704]
##
## Rule 22/19: (120.6/10.4, lift 1.9)
##     cruce_peligroso > 0
##     ->  class SI  [0.907]
##
## Rule 22/20: (994.4/404.6, lift 1.2)
##     metro_300 > 2
##     ACC_C_LESION_100 > 0
##     ACC_C_LESION_200 > 5
##     ACC_S_LESION_100 > 2
##     ->  class SI  [0.593]
##
## Rule 22/21: (157.8/3.5, lift 2.0)
##     traffic_signals > 0
##     ->  class SI  [0.972]
```

```
##
## Rule 22/22: (104/37.9, lift 1.3)
##   interseccion <= 0
##   ACC_FATAL_100 > 2
##   MOTOCICLISTA_200 <= 35
##   OTROS_100 <= 1
##   ->  class SI  [0.633]
##
## Default class: NO
##
## -----  Trial 23:  -----
##
## Rules:
##
## Rule 23/1: (91244.5/41520.3, lift 1.0)
##   traffic_signals <= 0
##   ->  class NO  [0.545]
##
## Rule 23/2: (18947.5/7114, lift 1.4)
##   interseccion > 0
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_200 <= 2
##   ACC_S_LESION_100 > 10
##   ATROPELLADO_100 > 1
##   ATROPELLADO_200 > 9
##   ATROPELLADO_FATAL_200 <= 2
##   FERROVIARIO_200 <= 0
##   ->  class SI  [0.625]
##
## Rule 23/3: (10296.3/3332.6, lift 1.5)
##   interseccion > 2
##   ACC_S_LESION_100 > 10
##   ->  class SI  [0.676]
##
## Rule 23/4: (11818.4/4083.8, lift 1.5)
##   interseccion > 0
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 > 8
##   ->  class SI  [0.654]
##
## Rule 23/5: (3112.6/1322.4, lift 1.3)
##   attraction <= 0
```

```
##   hotel <= 0
##   traffic_signals_300 <= 4
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_200 > 36
##   FERROVIARIO_100 <= 0
##   MOTOCICLISTA_200 > 3
##   MOTOCICLISTA_200 <= 13
##   VOLCADURA_100 > 2
##   ->  class SI  [0.575]
##
## Rule 23/6: (906.2/95, lift 2.0)
##   interseccion > 0
##   rtp > 0
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.894]
##
## Rule 23/7: (1549.6/623, lift 1.4)
##   ACC_PRENSADO_100 <= 0
##   ACC_S_LESION_100 > 10
##   ACC_S_LESION_200 > 36
##   OTROS_100 > 1
##   ->  class SI  [0.598]
##
## Rule 23/8: (3514.4/987.5, lift 1.6)
##   interseccion > 0
##   traffic_signals_300 <= 0
##   ACC_S_LESION_100 > 10
##   ACC_S_LESION_200 > 126
##   ACC_S_LESION_200 <= 474
##   ATROPELLADO_200 > 9
##   ATROPELLADO_FATAL_200 <= 2
##   FERROVIARIO_200 <= 0
##   OTROS_200 <= 2
##   VOLCADURA_100 <= 5
##   ->  class SI  [0.719]
##
## Rule 23/9: (2424/1064.1, lift 1.3)
##   hotel <= 0
##   supermarket <= 0
##   traffic_signals_300 <= 24
##   ACC_PRENSADO_100 > 0
##   ACC_S_LESION_100 > 10
```

```
##    ACC_S_LESION_200 > 36
##    ->  class SI  [0.561]
##
## Rule 23/10: (156.4/57.5, lift 1.4)
##    crossing_300 <= 8
##    interseccion > 6
##    ACC_C_LESION_100 > 1
##    ACC_S_LESION_100 <= 10
##    ATROPELLADO_100 <= 8
##    MOTOCICLISTA_100 <= 0
##    OTROS_200 <= 0
##    ->  class SI  [0.631]
##
## Rule 23/11: (369.9/164.7, lift 1.3)
##    interseccion > 0
##    ACC_S_LESION_100 > 0
##    ACC_S_LESION_100 <= 10
##    VEH_DESBARRANCADO_100 > 0
##    ->  class SI  [0.555]
##
## Rule 23/12: (114.7/36.4, lift 1.5)
##    interseccion <= 2
##    traffic_signals_300 > 22
##    traffic_signals_300 <= 24
##    ACC_PRENSADO_100 <= 0
##    ACC_S_LESION_100 > 10
##    OTROS_100 <= 1
##    ->  class SI  [0.680]
##
## Rule 23/13: (145.5, lift 2.3)
##    traffic_signals > 0
##    ->  class SI  [0.993]
##
## Rule 23/14: (789.3/227.1, lift 1.6)
##    interseccion > 0
##    PER_ATRAPADO_DESBARRANCADO_100 > 2
##    ->  class SI  [0.712]
##
## Rule 23/15: (38/7.6, lift 1.8)
##    interseccion <= 0
##    traffic_signals_300 <= 24
##    ACC_PRENSADO_100 <= 0
```

```
##    ACC_S_LESION_100 > 10
##    MOTOCICLISTA_200 <= 3
##    OTROS_100 <= 1
##    OTROS_200 > 2
##    -> class SI  [0.785]
##
## Rule 23/16: (104, lift 2.2)
##    cruce_peligroso > 0
##    -> class SI  [0.991]
##
## Rule 23/17: (63.4/12.3, lift 1.8)
##    interseccion <= 0
##    MOTOCICLISTA_200 > 3
##    OTROS_100 <= 1
##    VOLCADURA_100 > 17
##    VOLCADURA_100 <= 20
##    -> class SI  [0.796]
##
## Rule 23/18: (68.8/21.2, lift 1.6)
##    interseccion <= 0
##    traffic_signals_300 > 30
##    ACC_S_LESION_100 > 10
##    -> class SI  [0.686]
##
## Rule 23/19: (2340.8/681.2, lift 1.6)
##    interseccion > 0
##    ACC_C_LESION_200 > 85
##    ACC_PRENSADO_100 <= 0
##    ACC_S_LESION_100 > 0
##    VOLCADURA_100 <= 5
##    -> class SI  [0.709]
##
## Rule 23/20: (49.1/14.5, lift 1.6)
##    attraction > 0
##    -> class SI  [0.696]
##
## Rule 23/21: (94.7/26.7, lift 1.6)
##    interseccion > 0
##    ACC_C_LESION_200 <= 47
##    MOTOCICLISTA_100 <= 1
##    VEH_ATRAPADO_200 > 2
##    VEH_DESBARRANCADO_100 <= 0
```

```
## -> class SI  [0.713]
##
## Rule 23/22: (3539.4/1064.5, lift 1.6)
##   interseccion > 0
##   ACC_FATAL_200 <= 4
##   ACC_PRENSADO_200 <= 2
##   ACC_S_LESION_100 > 10
##   PER_ATRAPADO_DESBARRANCADO_200 > 1
##   -> class SI  [0.699]
##
## Rule 23/23: (98.5/34.8, lift 1.5)
##   rtp <= 0
##   ACC_PRENSADO_100 <= 0
##   FERROVIARIO_100 > 0
##   OTROS_100 <= 1
##   -> class SI  [0.644]
##
## Rule 23/24: (27.6/7.5, lift 1.6)
##   interseccion <= 0
##   ACC_S_LESION_100 <= 10
##   VEH_DESBARRANCADO_100 > 1
##   -> class SI  [0.711]
##
## Rule 23/25: (33.5/6.5, lift 1.8)
##   nightclub_300 > 4
##   -> class SI  [0.788]
##
## Rule 23/26: (2496.5/761.3, lift 1.6)
##   interseccion > 0
##   metro_300 > 0
##   ACC_S_LESION_100 > 10
##   -> class SI  [0.695]
##
## Rule 23/27: (138.5/45.7, lift 1.5)
##   hotel > 0
##   -> class SI  [0.668]
##
## Rule 23/28: (49.6/13.2, lift 1.6)
##   kindergarten > 0
##   ACC_S_LESION_100 > 10
##   -> class SI  [0.725]
##
```

```
## Rule 23/29: (148.5/41.8, lift 1.6)
##   metrobus > 0
##   ->  class SI  [0.716]
##
## Default class: NO
##
## -----  Trial 24:  -----
##
## Rules:
##
## Rule 24/1: (66755.5/28938.9, lift 1.2)
##   interseccion <= 2
##   VEH_ATRAPADO_100 <= 2
##   ->  class NO  [0.566]
##
## Rule 24/2: (52462.7/21331.1, lift 1.3)
##   interseccion > 0
##   ACC_PRENSADO_100 <= 2
##   ACC_S_LESION_100 > 1
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.593]
##
## Rule 24/3: (22174.4/8075.3, lift 1.4)
##   interseccion > 2
##   interseccion <= 10
##   ACC_S_LESION_100 > 0
##   ->  class SI  [0.636]
##
## Rule 24/4: (5127.7/1785, lift 1.3)
##   crossing_300 <= 0
##   cruce_peligroso <= 0
##   hospital_300 <= 0
##   interseccion <= 2
##   restaurant <= 0
##   restaurant_300 <= 10
##   rtp <= 0
##   school_300 <= 2
##   supermarket <= 0
##   traffic_signals <= 0
##   ACC_C_LESION_100 <= 25
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_100 <= 0
```

```
##    ACC_S_LESION_100 > 10
##    ACC_S_LESION_100 <= 39
##    ACC_S_LESION_200 > 22
##    ACC_S_LESION_200 <= 126
##    ATROPELLADO_100 <= 24
##    ATROPELLADO_200 > 9
##    ATROPELLADO_FATAL_200 <= 0
##    MOTOCICLISTA_100 <= 3
##    MOTOCICLISTA_200 <= 10
##    PER_ATRAPADO_DESBARRANCADO_200 <= 0
##    VEH_ATRAPADO_200 <= 2
##    ->  class NO  [0.652]
##
## Rule 24/5: (4756.1/77.2, lift 2.0)
##    ACC_S_LESION_100 <= 0
##    ->  class NO  [0.984]
##
## Rule 24/6: (2113/623.3, lift 1.5)
##    rtp > 0
##    ACC_S_LESION_100 > 0
##    ->  class SI  [0.705]
##
## Rule 24/7: (3390.2/1298.9, lift 1.3)
##    ACC_FATAL_100 <= 1
##    ACC_S_LESION_100 > 54
##    MOTOCICLISTA_100 <= 14
##    VOLCADURA_200 <= 1
##    ->  class SI  [0.617]
##
## Rule 24/8: (783.7/247.5, lift 1.4)
##    bar_300 <= 0
##    crossing_300 <= 0
##    cruce_peligroso <= 0
##    interseccion <= 2
##    restaurant_300 <= 8
##    rtp <= 0
##    school_300 <= 2
##    supermarket <= 0
##    traffic_signals <= 0
##    traffic_signals_300 <= 4
##    ACC_C_LESION_100 <= 25
##    ACC_S_LESION_100 > 39
```

```
##    ACC_S_LESION_100 <= 53
##    ACC_S_LESION_200 <= 126
##    ATROPELLADO_200 > 9
##    MOTOCICLISTA_200 <= 9
##    PER_ATRAPADO_DESBARRANCADO_200 <= 0
##    VOLCADURA_200 <= 3
##    ->  class NO  [0.684]
##
## Rule 24/9: (950.7/310.4, lift 1.4)
##    bar_300 <= 0
##    crossing_300 <= 0
##    interseccion <= 2
##    restaurant <= 0
##    restaurant_300 <= 14
##    rtp <= 0
##    rtp_300 <= 20
##    school_300 <= 2
##    supermarket <= 0
##    traffic_signals <= 0
##    ACC_C_LESION_100 <= 38
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_100 > 10
##    ACC_S_LESION_100 <= 53
##    ACC_S_LESION_200 <= 126
##    ATROPELLADO_100 <= 24
##    ATROPELLADO_200 > 9
##    ATROPELLADO_FATAL_100 <= 2
##    MOTOCICLISTA_200 <= 10
##    PER_ATRAPADO_DESBARRANCADO_200 <= 0
##    VEH_ATRAPADO_200 <= 2
##    VOLCADURA_200 > 3
##    ->  class NO  [0.673]
##
## Rule 24/10: (1327.7/511.3, lift 1.3)
##    traffic_signals_300 <= 16
##    trolebus <= 0
##    ACC_C_LESION_100 > 7
##    ACC_C_LESION_200 <= 211
##    ACC_FATAL_100 <= 1
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 54
##    ATROPELLADO_100 <= 47
```

```
##    ATROPELLADO_FATAL_200 <= 1
##    FERROVIARIO_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_100 > 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 4
##    VEH_ATRAPADO_100 <= 1
##    VEH_DESBARRANCADO_100 <= 0
##    VOLCADURA_100 <= 21
##    VOLCADURA_200 > 2
##    ->  class SI  [0.615]
##
## Rule 24/11: (518.3/160.1, lift 1.5)
##    cetram <= 0
##    school <= 0
##    ACC_PRENSADO_200 <= 1
##    MOTOCICLISTA_100 > 14
##    ->  class SI  [0.690]
##
## Rule 24/12: (202.6/71.4, lift 1.3)
##    bar_300 <= 0
##    interseccion > 0
##    interseccion <= 2
##    rtp <= 0
##    ACC_C_LESION_200 <= 24
##    ACC_FATAL_100 <= 0
##    ACC_S_LESION_100 > 37
##    ACC_S_LESION_200 <= 126
##    ATROPELLADO_200 <= 9
##    MOTOCICLISTA_200 <= 5
##    ->  class NO  [0.646]
##
## Rule 24/13: (1114.9/413.6, lift 1.3)
##    bank <= 0
##    bar_300 <= 0
##    hospital_300 <= 0
##    interseccion <= 2
##    metrobus <= 0
##    restaurant <= 0
##    restaurant_300 <= 10
##    rtp <= 0
##    school_300 <= 2
##    traffic_signals <= 0
##    traffic_signals_300 > 4
```

```
##   ACC_C_LESION_100 <= 38
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_200 > 22
##   ACC_S_LESION_200 <= 126
##   ATROPELLADO_100 <= 33
##   ATROPELLADO_200 > 9
##   ATROPELLADO_FATAL_100 <= 2
##   MOTOCICLISTA_200 <= 10
##   -> class NO  [0.629]
##
## Rule 24/14: (140/22.8, lift 1.7)
##   crossing <= 0
##   crossing_300 > 2
##   hospital_300 <= 0
##   hotel_300 <= 0
##   interseccion <= 2
##   traffic_signals_300 <= 4
##   ACC_S_LESION_100 <= 10
##   ACC_S_LESION_200 <= 126
##   ATROPELLADO_200 > 9
##   -> class NO  [0.832]
##
## Rule 24/15: (119.4/37.1, lift 1.5)
##   interseccion <= 0
##   rtp <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 18
##   ATROPELLADO_200 > 91
##   -> class SI  [0.686]
##
## Rule 24/16: (784.3/281, lift 1.3)
##   interseccion <= 10
##   restaurant_300 <= 2
##   rtp <= 0
##   rtp_300 <= 14
##   traffic_signals_300 <= 0
##   ACC_C_LESION_200 <= 11
##   ACC_S_LESION_100 <= 15
##   ACC_S_LESION_200 <= 40
##   ATROPELLADO_100 <= 4
##   ATROPELLADO_200 <= 23
##   VEH_DESBARRANCADO_200 > 0
```

```
##    VOLCADURA_100 <= 2
##    ->  class NO  [0.641]
##
## Rule 24/17: (119.7/30.1, lift 1.6)
##    rtp <= 0
##    ACC_FATAL_100 <= 1
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 54
##    ATROPELLADO_FATAL_200 <= 1
##    FERROVIARIO_100 <= 0
##    MOTOCICLISTA_100 <= 14
##    VEH_ATRAPADO_100 > 1
##    VOLCADURA_100 <= 21
##    VOLCADURA_200 > 2
##    ->  class SI  [0.745]
##
## Rule 24/18: (442.6/154.1, lift 1.3)
##    bank <= 0
##    cruce_peligroso <= 0
##    interseccion <= 2
##    metrobus <= 0
##    restaurant_300 <= 0
##    rtp_300 <= 20
##    ACC_C_LESION_100 <= 38
##    ACC_C_LESION_200 > 31
##    ACC_S_LESION_200 <= 126
##    ATROPELLADO_200 <= 9
##    MOTOCICLISTA_200 <= 5
##    PER_ATRAPADO_DESBARRANCADO_100 <= 1
##    VEH_ATRAPADO_100 <= 2
##    VOLCADURA_100 <= 8
##    ->  class NO  [0.651]
##
## Rule 24/19: (111.8/21.1, lift 1.8)
##    restaurant > 0
##    rtp <= 0
##    traffic_signals_300 <= 16
##    ACC_FATAL_100 <= 1
##    ACC_S_LESION_100 > 54
##    ATROPELLADO_FATAL_200 <= 1
##    PER_ATRAPADO_DESBARRANCADO_200 <= 4
##    VOLCADURA_100 <= 21
```

```
##   VOLCADURA_200 > 1
##   -> class SI [0.806]
##
## Rule 24/20: (124.1/28.9, lift 1.7)
##   trolebus <= 0
##   ACC_FATAL_100 <= 1
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 54
##   ATROPELLADO_FATAL_200 <= 1
##   MOTOCICLISTA_100 <= 14
##   MOTOCICLISTA_200 > 24
##   VEH_ATRAPADO_100 <= 1
##   VOLCADURA_200 > 1
##   -> class SI [0.763]
##
## Rule 24/21: (1928.9/774.1, lift 1.3)
##   bar_300 <= 8
##   nightclub_300 <= 0
##   school <= 0
##   ACC_S_LESION_100 > 31
##   ACC_S_LESION_100 <= 54
##   PER_ATRAPADO_DESBARRANCADO_100 > 0
##   -> class SI [0.599]
##
## Rule 24/22: (169.2/51.6, lift 1.4)
##   bar_300 <= 0
##   crossing <= 0
##   hospital_300 <= 0
##   interseccion <= 2
##   metrobus <= 0
##   restaurant_300 <= 8
##   rtp <= 0
##   supermarket <= 0
##   traffic_signals_300 <= 4
##   ACC_C_LESION_100 <= 38
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_200 <= 126
##   ATROPELLADO_100 > 26
##   ATROPELLADO_100 <= 33
##   ATROPELLADO_FATAL_100 <= 2
##   MOTOCICLISTA_200 <= 9
##   -> class NO [0.693]
```

```
##
## Rule 24/23: (150.7/50.5, lift 1.4)
##   nightclub_300 > 0
##   rtp <= 0
##   school <= 0
##   trolebus <= 0
##   ACC_S_LESION_100 > 31
##   ACC_S_LESION_100 <= 54
##   ->  class SI  [0.663]
##
## Rule 24/24: (611.2/224.6, lift 1.3)
##   bar_300 <= 8
##   interseccion <= 0
##   school <= 0
##   traffic_signals <= 0
##   trolebus <= 0
##   ACC_C_LESION_100 > 7
##   ACC_C_LESION_200 <= 211
##   ACC_S_LESION_100 > 31
##   ATROPELLADO_FATAL_200 <= 1
##   FERROVIARIO_100 <= 0
##   MOTOCICLISTA_100 <= 14
##   MOTOCICLISTA_200 <= 24
##   PER_ATRAPADO_DESBARRANCADO_100 <= 5
##   PER_ATRAPADO_DESBARRANCADO_200 > 4
##   VEH_ATRAPADO_100 <= 1
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_200 > 2
##   ->  class NO  [0.632]
##
## Rule 24/25: (218/73.7, lift 1.3)
##   interseccion <= 2
##   restaurant_300 <= 0
##   rtp_300 > 14
##   rtp_300 <= 20
##   ACC_C_LESION_200 > 2
##   ACC_C_LESION_200 <= 31
##   ATROPELLADO_200 <= 9
##   MOTOCICLISTA_200 <= 5
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class NO  [0.660]
##
```

```
## Rule 24/26: (90.6/26.8, lift 1.5)
##   interseccion <= 0
##   rtp <= 0
##   ACC_C_LESION_100 <= 7
##   ACC_S_LESION_100 > 54
##   ATROPELLADO_FATAL_200 <= 4
##   ->  class SI  [0.699]
##
## Rule 24/27: (123.8/24.9, lift 1.7)
##   ACC_C_LESION_100 <= 135
##   ACC_FATAL_100 <= 1
##   ACC_S_LESION_100 > 31
##   ATROPELLADO_FATAL_200 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 > 5
##   PER_ATRAPADO_DESBARRANCADO_100 <= 9
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_200 > 2
##   ->  class SI  [0.794]
##
## Rule 24/28: (886.6/356.5, lift 1.3)
##   interseccion > 0
##   interseccion <= 2
##   restaurant_300 <= 10
##   school_300 <= 2
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_200 <= 22
##   ATROPELLADO_200 > 9
##   MOTOCICLISTA_200 <= 10
##   VEH_ATRAPADO_100 <= 1
##   ->  class SI  [0.598]
##
## Rule 24/29: (353.4/103.8, lift 1.4)
##   ACC_C_LESION_100 <= 12
##   ACC_C_LESION_200 > 55
##   ACC_S_LESION_100 <= 19
##   ACC_S_LESION_200 <= 126
##   ATROPELLADO_100 <= 4
##   OTROS_100 <= 1
##   VOLCADURA_100 <= 2
##   ->  class NO  [0.705]
##
## Rule 24/30: (125/29.8, lift 1.5)
```

```
##   hospital_300 <= 0
##   interseccion <= 2
##   rtp <= 0
##   rtp_300 > 14
##   rtp_300 <= 20
##   school_300 <= 2
##   traffic_signals_300 <= 4
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_100 <= 10
##   ACC_S_LESION_200 > 22
##   ATROPELLADO_200 > 9
##   ATROPELLADO_FATAL_100 <= 0
##   VEH_DESBARRANCADO_200 <= 0
##   VOLCADURA_200 <= 19
##   ->  class NO  [0.757]
##
## Rule 24/31: (156.7/45.9, lift 1.5)
##   bar_300 <= 8
##   ACC_S_LESION_100 > 31
##   ACC_S_LESION_100 <= 54
##   ATROPELLADO_200 > 115
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.704]
##
## Rule 24/32: (54/4.7, lift 2.0)
##   traffic_signals_300 <= 16
##   ACC_C_LESION_200 <= 211
##   ACC_FATAL_100 <= 1
##   ACC_S_LESION_100 > 54
##   ATROPELLADO_200 > 110
##   ATROPELLADO_FATAL_200 <= 1
##   MOTOCICLISTA_200 <= 24
##   PER_ATRAPADO_DESBARRANCADO_200 <= 4
##   VOLCADURA_200 > 2
##   ->  class SI  [0.898]
##
## Rule 24/33: (269.7/94.9, lift 1.3)
##   hospital_300 <= 0
##   interseccion <= 2
##   rtp <= 0
##   rtp_300 > 20
```

```
##    traffic_signals_300 <= 4
##    ACC_S_LESION_100 > 1
##    ACC_S_LESION_200 > 22
##    ACC_S_LESION_200 <= 126
##    ATROPELLADO_100 <= 33
##    ATROPELLADO_200 > 9
##    MOTOCICLISTA_200 <= 10
##    -> class NO [0.647]
##
## Rule 24/34: (348.8/103.7, lift 1.5)
##    trolebus <= 0
##    ACC_FATAL_100 <= 1
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 54
##    ATROPELLADO_FATAL_200 > 4
##    -> class SI [0.701]
##
## Rule 24/35: (96/28.4, lift 1.4)
##    interseccion > 0
##    interseccion <= 2
##    restaurant_300 <= 0
##    ACC_FATAL_100 <= 0
##    ATROPELLADO_200 <= 9
##    MOTOCICLISTA_200 <= 5
##    VOLCADURA_100 > 8
##    -> class NO [0.700]
##
## Rule 24/36: (39.4/8.7, lift 1.6)
##    interseccion > 10
##    ATROPELLADO_100 <= 4
##    -> class NO [0.766]
##
## Rule 24/37: (44.8/7.5, lift 1.7)
##    interseccion <= 2
##    restaurant_300 <= 0
##    rtp <= 0
##    rtp_300 <= 20
##    ACC_C_LESION_200 <= 2
##    ACC_S_LESION_200 > 30
##    ATROPELLADO_200 <= 9
##    -> class NO [0.818]
##
```

```
## Rule 24/38: (117.7/31.5, lift 1.6)
##   bar_300 <= 8
##   rtp <= 0
##   ACC_C_LESION_100 <= 135
##   ACC_C_LESION_200 > 211
##   ACC_FATAL_100 <= 1
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 54
##   ATROPELLADO_FATAL_200 <= 4
##   MOTOCICLISTA_100 <= 14
##   -> class SI  [0.728]
##
## Rule 24/39: (235.6/74.4, lift 1.5)
##   school > 0
##   ACC_S_LESION_100 > 18
##   -> class SI  [0.683]
##
## Rule 24/40: (42.4/4.3, lift 1.9)
##   rtp <= 0
##   ACC_C_LESION_100 > 135
##   ACC_FATAL_100 <= 1
##   MOTOCICLISTA_100 <= 14
##   -> class SI  [0.880]
##
## Rule 24/41: (52.3/13.3, lift 1.5)
##   interseccion <= 2
##   rtp <= 0
##   ACC_S_LESION_200 <= 126
##   ATROPELLADO_100 > 8
##   ATROPELLADO_200 <= 9
##   -> class NO  [0.737]
##
## Rule 24/42: (32.3/2.6, lift 1.8)
##   interseccion > 0
##   interseccion <= 2
##   rtp <= 0
##   school_300 <= 2
##   ACC_C_LESION_100 <= 38
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_200 > 22
##   ACC_S_LESION_200 <= 126
##   ATROPELLADO_200 > 9
```

```
##    VOLCADURA_100 <= 23
##    VOLCADURA_200 > 19
##    -> class NO  [0.894]
##
## Rule 24/43: (1233.7/212.2, lift 1.8)
##   bar_300 > 0
##   interseccion > 0
##   ACC_S_LESION_100 > 0
##    -> class SI  [0.828]
##
## Rule 24/44: (114.6/38.8, lift 1.3)
##   bar_300 <= 0
##   interseccion <= 2
##   metro_300 <= 0
##   ACC_PRENSADO_100 > 1
##   ACC_S_LESION_200 > 126
##   ATROPELLADO_200 <= 145
##    -> class NO  [0.658]
##
## Rule 24/45: (59.9/12.4, lift 1.6)
##   bar_300 <= 0
##   hospital_300 <= 0
##   hotel_300 <= 0
##   interseccion <= 2
##   rtp <= 0
##   school_300 <= 2
##   traffic_signals_300 <= 4
##   ACC_S_LESION_100 <= 10
##   ACC_S_LESION_200 > 22
##   ATROPELLADO_100 > 11
##   ATROPELLADO_FATAL_100 <= 0
##   MOTOCICLISTA_200 <= 10
##    -> class NO  [0.784]
##
## Rule 24/46: (135.7, lift 2.2)
##   traffic_signals > 0
##    -> class SI  [0.993]
##
## Rule 24/47: (41.4/5.5, lift 1.9)
##   bank > 0
##   rtp <= 0
##   school <= 0
```

```
##    ACC_FATAL_100 <= 1
##    ACC_S_LESION_100 > 54
##    ATROPELLADO_FATAL_200 <= 1
##    PER_ATRAPADO_DESBARRANCADO_200 <= 4
##    VOLCADURA_100 <= 21
##    VOLCADURA_200 > 2
##    ->  class SI  [0.849]
##
## Rule 24/48: (94.8/25.6, lift 1.6)
##    crossing_300 > 10
##    restaurant <= 0
##    ACC_FATAL_100 <= 1
##    ACC_S_LESION_100 > 31
##    ACC_S_LESION_100 <= 54
##    ATROPELLADO_200 <= 115
##    ATROPELLADO_FATAL_100 <= 1
##    ->  class SI  [0.725]
##
## Rule 24/49: (135.6/44.2, lift 1.4)
##    hospital_300 <= 0
##    hotel_300 > 0
##    interseccion <= 2
##    school_300 <= 2
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_100 <= 10
##    ATROPELLADO_100 <= 33
##    ATROPELLADO_200 > 9
##    ->  class NO  [0.672]
##
## Rule 24/50: (41/9.5, lift 1.5)
##    bar_300 <= 0
##    hospital_300 > 2
##    interseccion <= 2
##    ATROPELLADO_200 <= 9
##    ->  class NO  [0.756]
##
## Rule 24/51: (31.3/7.2, lift 1.6)
##    cetram > 0
##    interseccion <= 0
##    rtp <= 0
##    ->  class SI  [0.753]
##
```

```
## Rule 24/52: (43.7/9.2, lift 1.7)
##   rtp <= 0
##   ACC_S_LESION_100 > 54
##   FERROVIARIO_100 > 0
##   MOTOCICLISTA_100 <= 14
##   VOLCADURA_200 > 1
##   ->  class SI  [0.777]
##
## Rule 24/53: (234.9/74.9, lift 1.5)
##   ACC_S_LESION_100 > 31
##   ACC_S_LESION_100 <= 54
##   ATROPELLADO_FATAL_100 > 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.680]
##
## Rule 24/54: (101.9/36.3, lift 1.4)
##   ACC_FATAL_100 > 1
##   ACC_S_LESION_100 > 31
##   ACC_S_LESION_100 <= 54
##   ATROPELLADO_200 <= 115
##   ATROPELLADO_FATAL_100 <= 1
##   ->  class SI  [0.641]
##
## Rule 24/55: (1561.4/274.9, lift 1.8)
##   interseccion > 0
##   rtp_300 <= 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_200 > 126
##   VEH_ATRAPADO_200 <= 3
##   ->  class SI  [0.823]
##
## Rule 24/56: (61.8/15.8, lift 1.6)
##   rtp <= 0
##   supermarket > 0
##   ACC_S_LESION_100 > 0
##   ACC_S_LESION_100 <= 18
##   ->  class SI  [0.736]
##
## Rule 24/57: (40.8/4.9, lift 1.9)
##   crossing > 2
##   interseccion > 0
##   ACC_S_LESION_100 > 0
```

```
## -> class SI [0.863]
##
## Rule 24/58: (96.9, lift 2.2)
## cruce_peligroso > 0
## -> class SI [0.990]
##
## Rule 24/59: (381.9/126, lift 1.5)
## bar_300 > 8
## school <= 0
## ACC_S_LESION_100 > 31
## -> class SI [0.669]
##
## Rule 24/60: (89.1/2.3, lift 2.1)
## bank > 0
## interseccion > 0
## -> class SI [0.964]
##
## Default class: NO
##
## ----- Trial 25: -----
##
## Rules:
##
## Rule 25/1: (87562.8/40575.4, lift 1.1)
## traffic_signals <= 0
## -> class NO [0.537]
##
## Rule 25/2: (11000.2/1754.7, lift 2.0)
## interseccion > 0
## turning_circle <= 0
## ACC_S_LESION_100 > 17
## ACC_S_LESION_200 > 58
## -> class SI [0.840]
##
## Rule 25/3: (5088.7/1013.2, lift 1.9)
## interseccion > 2
## rtp_300 <= 2
## ACC_S_LESION_100 > 6
## VOLCADURA_200 <= 17
## -> class SI [0.801]
##
## Rule 25/4: (11952.7/2906.8, lift 1.8)
```

```
##    interseccion > 0
##    traffic_signals_300 <= 4
##    ACC_C_LESION_200 > 16
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_100 > 6
##    ATROPELLADO_FATAL_200 <= 1
##    VOLCADURA_200 <= 10
##    -> class SI  [0.757]
##
## Rule 25/5: (6613.6/747.3, lift 2.1)
##    interseccion > 2
##    ACC_C_LESION_200 > 2
##    ACC_S_LESION_100 > 6
##    ACC_S_LESION_200 > 33
##    VOLCADURA_200 <= 17
##    -> class SI  [0.887]
##
## Rule 25/6: (12882.5/2759, lift 1.8)
##    interseccion > 0
##    turning_circle <= 0
##    ACC_FATAL_100 <= 1
##    ACC_PRENSADO_100 <= 0
##    ACC_S_LESION_100 > 17
##    OTROS_200 <= 2
##    VOLCADURA_100 <= 3
##    -> class SI  [0.786]
##
## Rule 25/7: (751.9/50.2, lift 2.2)
##    interseccion > 0
##    rtp > 0
##    -> class SI  [0.932]
##
## Rule 25/8: (2607/429.7, lift 1.9)
##    interseccion > 0
##    restaurant_300 > 2
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_100 > 6
##    ATROPELLADO_FATAL_200 <= 2
##    -> class SI  [0.835]
##
## Rule 25/9: (2104.5/783.4, lift 1.5)
##    hospital_300 <= 2
```

```
##   metro <= 0
##   supermarket <= 0
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 24
##   ACC_S_LESION_200 > 275
##   ATROPELLADO_100 <= 70
##   FERROVIARIO_100 <= 0
##   VOLCADURA_100 > 0
##   VOLCADURA_200 <= 16
##   ->  class SI  [0.628]
##
## Rule 25/10: (1646.6/401.1, lift 1.8)
##   interseccion > 0
##   ACC_C_LESION_200 > 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 0
##   ATROPELLADO_100 > 0
##   OTROS_200 > 1
##   OTROS_200 <= 3
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 5
##   ->  class SI  [0.756]
##
## Rule 25/11: (984.4/378.9, lift 1.4)
##   hospital_300 <= 2
##   restaurant <= 2
##   trolebus <= 0
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 24
##   ATROPELLADO_200 > 3
##   VOLCADURA_200 > 18
##   ->  class SI  [0.615]
##
## Rule 25/12: (154.1/46.2, lift 1.6)
##   interseccion > 0
##   restaurant_300 <= 2
##   traffic_signals_300 <= 10
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 6
##   ACC_S_LESION_200 > 85
##   ACC_S_LESION_200 <= 194
```

```
##     ATROPELLADO_100 > 0
##     ATROPELLADO_100 <= 4
##     ATROPELLADO_FATAL_100 <= 0
##     OTROS_200 <= 1
##     -> class SI  [0.698]
##
## Rule 25/13: (259.6/82.7, lift 1.6)
##     hotel_300 > 4
##     nightclub_300 <= 0
##     ACC_S_LESION_100 > 24
##     VOLCADURA_100 <= 0
##     -> class SI  [0.680]
##
## Rule 25/14: (302.1/95.5, lift 1.6)
##     hospital_300 <= 2
##     ACC_FATAL_200 <= 1
##     ATROPELLADO_100 > 70
##     FERROVIARIO_100 <= 0
##     PER_ATRAPADO_DESBARRANCADO_100 <= 7
##     VOLCADURA_100 > 0
##     -> class SI  [0.683]
##
## Rule 25/15: (838.5/347.8, lift 1.4)
##     interseccion > 0
##     ACC_S_LESION_100 > 0
##     VEH_DESBARRANCADO_100 > 0
##     -> class SI  [0.585]
##
## Rule 25/16: (662.7/232.6, lift 1.5)
##     interseccion > 0
##     restaurant_300 > 0
##     restaurant_300 <= 2
##     school_300 <= 2
##     ACC_C_LESION_200 <= 14
##     ACC_FATAL_200 <= 1
##     ACC_PRENSADO_200 <= 0
##     ACC_S_LESION_100 > 6
##     ACC_S_LESION_200 <= 71
##     PER_ATRAPADO_DESBARRANCADO_100 <= 0
##     VEH_ATRAPADO_100 <= 1
##     -> class SI  [0.648]
##
```

```
## Rule 25/17: (1702.5/665.7, lift 1.4)
##   crossing <= 0
##   metro <= 0
##   supermarket <= 0
##   ACC_C_LESION_200 > 20
##   ACC_FATAL_200 > 1
##   ACC_S_LESION_100 > 24
##   ATROPELLADO_200 > 3
##   PER_ATRAPADO_DESBARRANCADO_100 <= 7
##   VOLCADURA_100 > 0
##   VOLCADURA_100 <= 16
##   ->  class SI  [0.609]
##
## Rule 25/18: (180.2/47.7, lift 1.7)
##   metro <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 > 7
##   VOLCADURA_100 > 0
##   ->  class SI  [0.733]
##
## Rule 25/19: (162.3/44.1, lift 1.7)
##   supermarket > 0
##   ACC_C_LESION_200 > 20
##   ACC_S_LESION_100 > 24
##   ->  class SI  [0.725]
##
## Rule 25/20: (140.6/48.7, lift 1.5)
##   interseccion > 0
##   rtp_300 > 12
##   traffic_signals_300 <= 10
##   ACC_C_LESION_200 > 0
##   ACC_S_LESION_100 <= 3
##   ATROPELLADO_100 > 0
##   ATROPELLADO_100 <= 4
##   OTROS_200 <= 1
##   ->  class SI  [0.651]
##
## Rule 25/21: (111.3/40.1, lift 1.5)
##   interseccion <= 0
##   ACC_C_LESION_200 > 20
##   ACC_S_LESION_100 > 24
##   ATROPELLADO_200 <= 3
##   VOLCADURA_100 > 0
```

```
##  ->  class SI  [0.637]
##
## Rule 25/22: (112/33.2, lift 1.6)
##   interseccion > 0
##   interseccion <= 2
##   ACC_C_LESION_200 <= 16
##   ACC_S_LESION_100 > 6
##   ACC_S_LESION_100 <= 17
##   MOTOCICLISTA_200 > 5
##   MOTOCICLISTA_200 <= 6
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   ->  class SI  [0.700]
##
## Rule 25/23: (401.9/73.2, lift 1.9)
##   hospital_300 <= 0
##   interseccion > 0
##   restaurant_300 <= 2
##   ACC_C_LESION_200 <= 16
##   ACC_S_LESION_100 > 6
##   ACC_S_LESION_200 > 60
##   ACC_S_LESION_200 <= 71
##   ATROPELLADO_100 <= 21
##   ATROPELLADO_200 <= 27
##   MOTOCICLISTA_200 <= 5
##   ->  class SI  [0.816]
##
## Rule 25/24: (364.9/77.2, lift 1.8)
##   bar_300 <= 0
##   interseccion > 0
##   rtp_300 <= 2
##   ACC_S_LESION_100 > 6
##   ATROPELLADO_FATAL_100 > 0
##   ATROPELLADO_FATAL_100 <= 1
##   ATROPELLADO_FATAL_200 <= 2
##   MOTOCICLISTA_200 <= 4
##   OTROS_100 <= 0
##   ->  class SI  [0.787]
##
## Rule 25/25: (281.6/65.4, lift 1.8)
##   trolebus > 0
##   ACC_S_LESION_100 > 24
##   ->  class SI  [0.766]
```

```
##
## Rule 25/26: (50.7/12.7, lift 1.7)
##   interseccion > 0
##   interseccion <= 2
##   ACC_S_LESION_100 > 6
##   ACC_S_LESION_100 <= 17
##   ATROPELLADO_FATAL_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 3
##   VOLCADURA_200 > 21
##   ->  class SI  [0.740]
##
## Rule 25/27: (168.1/51.5, lift 1.6)
##   metro > 0
##   ->  class SI  [0.691]
##
## Rule 25/28: (73.3/14.9, lift 1.8)
##   hospital_300 <= 2
##   metrobus <= 0
##   trolebus <= 0
##   ACC_FATAL_200 <= 1
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_200 <= 275
##   ATROPELLADO_100 > 53
##   ATROPELLADO_100 <= 59
##   VOLCADURA_100 > 0
##   VOLCADURA_200 <= 18
##   ->  class SI  [0.789]
##
## Rule 25/29: (286.2/85.1, lift 1.6)
##   crossing_300 <= 2
##   interseccion > 0
##   metro_300 <= 0
##   ACC_PRENSADO_200 <= 0
##   ACC_S_LESION_100 > 6
##   ACC_S_LESION_100 <= 13
##   ACC_S_LESION_200 <= 71
##   ATROPELLADO_200 <= 27
##   MOTOCICLISTA_200 > 4
##   MOTOCICLISTA_200 <= 5
##   OTROS_200 <= 0
##   ->  class SI  [0.701]
##
```

```
## Rule 25/30: (6643.2/1196.7, lift 1.9)
##   interseccion > 0
##   ACC_S_LESION_100 > 6
##   ATROPELLADO_200 > 27
##   ATROPELLADO_FATAL_200 <= 2
##   -> class SI  [0.820]
##
## Rule 25/31: (256.9/40.6, lift 1.9)
##   hospital_300 > 2
##   interseccion > 0
##   ACC_S_LESION_100 > 0
##   -> class SI  [0.839]
##
## Rule 25/32: (79.8, lift 2.3)
##   rtp > 2
##   ACC_S_LESION_100 > 24
##   -> class SI  [0.988]
##
## Rule 25/33: (56.3/18, lift 1.6)
##   interseccion <= 0
##   ACC_C_LESION_200 > 20
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 24
##   ACC_S_LESION_200 <= 38
##   -> class SI  [0.674]
##
## Rule 25/34: (183.5/53.9, lift 1.4)
##   bank <= 0
##   bar <= 0
##   cruce_peligroso <= 0
##   interseccion <= 2
##   restaurant_300 <= 4
##   rtp <= 0
##   ACC_S_LESION_100 > 42
##   ACC_S_LESION_200 <= 58
##   OTROS_200 <= 2
##   VOLCADURA_100 <= 3
##   -> class NO  [0.704]
##
## Rule 25/35: (68.8/25.1, lift 1.5)
##   rtp_300 > 20
##   ACC_C_LESION_100 > 0
```

```
##    ATROPELLADO_100 <= 0
##    ->  class SI  [0.631]
##
## Rule 25/36: (124.2, lift 2.3)
##    traffic_signals > 0
##    ->  class SI  [0.992]
##
## Rule 25/37: (116.8/11.3, lift 2.1)
##    interseccion > 0
##    school > 0
##    ->  class SI  [0.896]
##
## Rule 25/38: (293.7/72.5, lift 1.5)
##    hospital_300 <= 0
##    interseccion <= 2
##    metro_300 <= 0
##    restaurant_300 <= 2
##    rtp <= 0
##    traffic_signals <= 0
##    traffic_signals_300 > 4
##    ACC_C_LESION_200 > 16
##    ACC_S_LESION_100 <= 17
##    MOTOCICLISTA_200 <= 6
##    PER_ATRAPADO_DESBARRANCADO_200 <= 3
##    ->  class NO  [0.751]
##
## Rule 25/39: (130.5/34.3, lift 1.7)
##    crossing > 0
##    ACC_S_LESION_100 > 24
##    ->  class SI  [0.734]
##
## Rule 25/40: (63.2/19.6, lift 1.6)
##    crossing_300 > 2
##    interseccion > 0
##    interseccion <= 2
##    restaurant_300 <= 2
##    ACC_C_LESION_200 <= 16
##    ACC_S_LESION_100 > 6
##    ACC_S_LESION_100 <= 13
##    ->  class SI  [0.684]
##
## Rule 25/41: (88.8, lift 2.3)
```

```
##   cruce_peligroso > 0
##   ->  class SI  [0.989]
##
## Rule 25/42: (1179.2/211.5, lift 1.9)
##   hospital_300 > 0
##   interseccion > 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 6
##   VOLCADURA_200 <= 21
##   ->  class SI  [0.820]
##
## Rule 25/43: (331.2/24.2, lift 2.1)
##   interseccion > 2
##   school_300 > 2
##   ACC_S_LESION_100 > 6
##   VOLCADURA_200 <= 17
##   ->  class SI  [0.924]
##
## Rule 25/44: (289.2/108.8, lift 1.4)
##   metrobus <= 0
##   nightclub_300 > 0
##   trolebus <= 0
##   ACC_C_LESION_200 > 20
##   ACC_S_LESION_100 > 24
##   VOLCADURA_100 <= 0
##   ->  class SI  [0.623]
##
## Rule 25/45: (68.2/11.3, lift 1.7)
##   bar_300 <= 0
##   interseccion <= 2
##   turning_circle > 0
##   ->  class NO  [0.825]
##
## Rule 25/46: (1038.3/90.9, lift 2.1)
##   interseccion > 0
##   ACC_S_LESION_100 > 6
##   PER_ATRAPADO_DESBARRANCADO_200 > 3
##   ->  class SI  [0.912]
##
## Rule 25/47: (76.1/15.2, lift 1.8)
##   hospital_300 <= 2
##   restaurant > 2
```

```
##    supermarket <= 0
##    ACC_C_LESION_200 > 20
##    MOTOCICLISTA_200 > 0
##    VOLCADURA_100 > 0
##    VOLCADURA_100 <= 16
##    -> class SI  [0.792]
##
## Rule 25/48: (149.7/38.6, lift 1.7)
##    metrobus > 0
##    -> class SI  [0.739]
##
## Rule 25/49: (215.4/6.6, lift 2.2)
##    interseccion > 0
##    restaurant > 0
##    -> class SI  [0.965]
##
## Rule 25/50: (786.7/313.4, lift 1.4)
##    ACC_S_LESION_100 > 24
##    ATROPELLADO_200 > 3
##    VOLCADURA_100 > 16
##    -> class SI  [0.601]
##
## Rule 25/51: (43.3, lift 2.3)
##    bar > 0
##    interseccion > 0
##    -> class SI  [0.978]
##
## Rule 25/52: (4281.3/11.7, lift 2.0)
##    rtp <= 0
##    ACC_S_LESION_100 <= 0
##    -> class NO  [0.997]
##
## Default class: NO
##
## -----  Trial 26:  -----
##
## Rules:
##
## Rule 26/1: (57969.3/21410, lift 1.4)
##    interseccion > 0
##    turning_circle <= 0
##    -> class SI  [0.631]
```

```
##
## Rule 26/2: (25779.5/5654, lift 1.7)
##   bank <= 0
##   cetram <= 0
##   interseccion <= 0
##   metrobus <= 0
##   rtp <= 0
##   VEH_DESBARRANCADO_200 <= 1
##   ->  class NO  [0.781]
##
## Rule 26/3: (8422.9/1458.1, lift 1.8)
##   hotel_300 <= 0
##   ACC_S_LESION_100 <= 2
##   ATROPELLADO_100 <= 0
##   ->  class NO  [0.827]
##
## Rule 26/4: (2252.3/692.1, lift 1.5)
##   rtp > 0
##   ->  class SI  [0.693]
##
## Rule 26/5: (6016.6/572.7, lift 2.0)
##   interseccion <= 2
##   restaurant <= 0
##   restaurant_300 <= 6
##   rtp <= 0
##   supermarket <= 0
##   traffic_signals_300 <= 14
##   ACC_C_LESION_100 <= 0
##   ACC_FATAL_100 <= 0
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 <= 3
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   VEH_DESBARRANCADO_100 <= 0
##   ->  class NO  [0.905]
##
## Rule 26/6: (3885.5/13, lift 2.2)
##   ACC_S_LESION_100 <= 0
##   ->  class NO  [0.996]
##
## Rule 26/7: (2044.2/723.3, lift 1.4)
##   interseccion <= 2
##   rtp <= 0
```

```
##    school <= 0
##    ACC_FATAL_100 <= 0
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 3
##    ACC_S_LESION_100 <= 9
##    ACC_S_LESION_200 > 56
##    ATROPELLADO_100 <= 19
##    ATROPELLADO_FATAL_100 <= 0
##    VEH_DESBARRANCADO_100 <= 0
##    ->  class NO  [0.646]
##
## Rule 26/8: (349.8/127.7, lift 1.4)
##    bank > 0
##    ACC_S_LESION_100 > 22
##    ->  class SI  [0.634]
##
## Rule 26/9: (322.3/108.9, lift 1.5)
##    rtp <= 0
##    VEH_DESBARRANCADO_200 > 1
##    ->  class NO  [0.661]
##
## Rule 26/10: (136.2/34.9, lift 1.6)
##    metrobus > 0
##    ->  class SI  [0.740]
##
## Rule 26/11: (879.3/309.7, lift 1.4)
##    interseccion <= 2
##    restaurant <= 0
##    restaurant_300 <= 8
##    rtp <= 0
##    school_300 <= 4
##    ACC_S_LESION_100 <= 16
##    ATROPELLADO_100 <= 19
##    ATROPELLADO_FATAL_100 > 0
##    PER_ATRAPADO_DESBARRANCADO_100 <= 2
##    ->  class NO  [0.647]
##
## Rule 26/12: (102/13.5, lift 1.9)
##    ACC_S_LESION_100 > 22
##    ACC_S_LESION_200 > 45
##    ACC_S_LESION_200 <= 60
##    PER_ATRAPADO_DESBARRANCADO_100 > 1
```

```
##    VEH_DESBARRANCADO_200 <= 1
##    ->  class SI  [0.860]
##
## Rule 26/13: (803.2/167.5, lift 1.8)
##    crossing_300 <= 6
##    ACC_C_LESION_100 <= 1
##    ACC_S_LESION_100 <= 2
##    OTROS_200 > 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 1
##    VOLCADURA_200 <= 13
##    ->  class NO  [0.791]
##
## Rule 26/14: (66.3/12.8, lift 1.8)
##    bar_300 <= 0
##    interseccion > 2
##    ACC_S_LESION_100 > 2
##    ACC_S_LESION_100 <= 9
##    ACC_S_LESION_200 <= 47
##    ATROPELLADO_100 <= 3
##    ATROPELLADO_200 > 23
##    ->  class NO  [0.798]
##
## Rule 26/15: (390/129.4, lift 1.5)
##    hospital_300 <= 0
##    metro_300 <= 0
##    restaurant_300 > 2
##    restaurant_300 <= 8
##    school_300 <= 2
##    ACC_S_LESION_100 <= 9
##    ACC_S_LESION_200 <= 47
##    ATROPELLADO_100 <= 3
##    MOTOCICLISTA_200 <= 5
##    VEH_ATRAPADO_100 <= 0
##    VOLCADURA_200 <= 5
##    ->  class NO  [0.667]
##
## Rule 26/16: (102.9/20.9, lift 1.7)
##    bank <= 0
##    restaurant_300 <= 74
##    PER_ATRAPADO_DESBARRANCADO_100 > 1
##    PER_ATRAPADO_DESBARRANCADO_200 > 19
##    ->  class SI  [0.792]
```

```
##
## Rule 26/17: (790.7/277.7, lift 1.4)
##   interseccion <= 2
##   restaurant <= 0
##   restaurant_300 <= 8
##   school <= 0
##   school_300 <= 4
##   ACC_S_LESION_100 > 9
##   ACC_S_LESION_100 <= 16
##   ATROPELLADO_100 <= 19
##   MOTOCICLISTA_200 > 6
##   PER_ATRAPADO_DESBARRANCADO_200 <= 2
##   VOLCADURA_100 <= 5
##   ->  class NO  [0.648]
##
## Rule 26/18: (276.6/42.3, lift 1.9)
##   ACC_C_LESION_100 <= 1
##   ACC_S_LESION_100 <= 2
##   VEH_DESBARRANCADO_200 > 0
##   VOLCADURA_200 <= 13
##   ->  class NO  [0.845]
##
## Rule 26/19: (241/68.8, lift 1.6)
##   interseccion <= 2
##   restaurant_300 <= 8
##   rtp <= 0
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 <= 16
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_100 > 5
##   ->  class NO  [0.713]
##
## Rule 26/20: (41.6/4.9, lift 1.9)
##   interseccion <= 0
##   ACC_C_LESION_100 > 100
##   MOTOCICLISTA_100 <= 6
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   ->  class SI  [0.865]
##
## Rule 26/21: (33053.4/13694.4, lift 1.3)
##   hospital_300 <= 0
```

```
##   rtp <= 0
##   school_300 <= 2
##   traffic_signals_300 <= 10
##   ACC_S_LESION_100 <= 9
##   ATROPELLADO_100 <= 3
##   -> class NO  [0.586]
##
## Rule 26/22: (776.3/309.4, lift 1.3)
##   traffic_signals_300 <= 10
##   ACC_C_LESION_200 > 55
##   ACC_S_LESION_100 <= 9
##   ATROPELLADO_100 <= 3
##   -> class NO  [0.601]
##
## Rule 26/23: (50.5/6.3, lift 1.9)
##   rtp <= 0
##   ACC_S_LESION_100 > 22
##   ACC_S_LESION_200 > 72
##   ACC_S_LESION_200 <= 78
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   VEH_DESBARRANCADO_200 <= 1
##   -> class SI  [0.861]
##
## Rule 26/24: (52.9/13.1, lift 1.6)
##   cetram > 0
##   -> class SI  [0.743]
##
## Rule 26/25: (69.8/19.4, lift 1.6)
##   interseccion > 2
##   rtp <= 0
##   rtp_300 <= 14
##   ACC_S_LESION_100 <= 9
##   ACC_S_LESION_200 <= 47
##   ATROPELLADO_100 <= 3
##   ATROPELLADO_FATAL_200 > 1
##   -> class NO  [0.715]
##
## Rule 26/26: (41.1/5.5, lift 1.8)
##   ACC_C_LESION_100 > 83
##   ACC_C_LESION_100 <= 92
##   ACC_S_LESION_100 <= 192
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
```

```
##   PER_ATRAPADO_DESBARRANCADO_200 <= 19
##   ->  class SI  [0.849]
##
## Rule 26/27: (1307.6/218, lift 1.8)
##   hotel_300 > 0
##   interseccion > 0
##   ->  class SI  [0.833]
##
## Rule 26/28: (224.6/75.2, lift 1.5)
##   interseccion <= 2
##   restaurant_300 <= 8
##   rtp <= 0
##   school <= 0
##   ACC_S_LESION_100 <= 16
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   ->  class NO  [0.664]
##
## Rule 26/29: (108/35.2, lift 1.5)
##   hospital_300 <= 0
##   metro_300 > 0
##   traffic_signals_300 <= 10
##   ACC_S_LESION_100 > 2
##   ACC_S_LESION_100 <= 9
##   ACC_S_LESION_200 <= 47
##   ATROPELLADO_100 <= 3
##   ->  class NO  [0.671]
##
## Rule 26/30: (211.1/74.7, lift 1.4)
##   interseccion <= 2
##   traffic_signals_300 <= 2
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 9
##   ACC_S_LESION_200 <= 56
##   ATROPELLADO_FATAL_100 <= 0
##   OTROS_200 > 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   ->  class NO  [0.645]
##
## Rule 26/31: (258.3/58.5, lift 1.7)
##   interseccion > 0
```

```
##   ACC_FATAL_100 <= 0
##   ACC_PRENSADO_200 > 1
##   ACC_S_LESION_100 > 2
##   VEH_DESBARRANCADO_100 <= 0
##   VOLCADURA_100 <= 5
##   -> class SI  [0.771]
##
## Rule 26/32: (28.7/3, lift 1.9)
##   interseccion <= 0
##   ACC_C_LESION_200 <= 8
##   ACC_S_LESION_100 > 22
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   -> class SI  [0.871]
##
## Rule 26/33: (41.8/6.4, lift 1.9)
##   turning_circle > 0
##   ACC_S_LESION_100 <= 16
##   -> class NO  [0.831]
##
## Rule 26/34: (8481/1489.1, lift 1.8)
##   ACC_S_LESION_100 <= 2
##   ATROPELLADO_100 <= 0
##   -> class NO  [0.824]
##
## Rule 26/35: (14194.6/2290, lift 1.8)
##   interseccion > 0
##   ACC_S_LESION_100 > 16
##   -> class SI  [0.839]
##
## Rule 26/36: (46.2, lift 2.2)
##   crossing_300 > 12
##   ACC_S_LESION_100 <= 2
##   -> class NO  [0.979]
##
## Rule 26/37: (188.1/0.7, lift 2.2)
##   interseccion > 0
##   restaurant > 0
##   -> class SI  [0.991]
##
## Default class: NO
##
## -----  Trial 27:  -----
```

```
##
## Rules:
##
## Rule 27/1: (83704.4/39546.1, lift 1.1)
##   traffic_signals <= 0
##   ->  class NO  [0.528]
##
## Rule 27/2: (14621.7/1686.1, lift 2.1)
##   interseccion > 0
##   rtp_300 <= 10
##   ACC_C_LESION_200 > 3
##   ACC_S_LESION_100 > 7
##   ACC_S_LESION_200 > 30
##   VEH_DESBARRANCADO_200 <= 0
##   ->  class SI  [0.885]
##
## Rule 27/3: (7458.2/631.1, lift 2.2)
##   interseccion > 2
##   ACC_S_LESION_100 > 7
##   ->  class SI  [0.915]
##
## Rule 27/4: (11459.1/1634.8, lift 2.0)
##   interseccion > 0
##   traffic_signals_300 <= 6
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 > 55
##   ATROPELLADO_200 > 8
##   OTROS_200 <= 3
##   ->  class SI  [0.857]
##
## Rule 27/5: (7044.5/785.8, lift 2.1)
##   interseccion > 2
##   ACC_PRENSADO_200 <= 1
##   ACC_S_LESION_100 > 4
##   ATROPELLADO_200 > 8
##   OTROS_200 <= 3
##   ->  class SI  [0.888]
##
## Rule 27/6: (1628.7/546.2, lift 1.6)
##   ACC_S_LESION_100 > 24
##   ATROPELLADO_100 > 53
```

```
## -> class SI  [0.664]
##
## Rule 27/7: (7336.7/1387.6, lift 1.9)
##   interseccion > 2
##   ACC_S_LESION_100 > 1
##   MOTOCICLISTA_100 > 0
##   -> class SI  [0.811]
##
## Rule 27/8: (10602.4/649.6, lift 2.2)
##   interseccion > 0
##   ACC_S_LESION_100 > 17
##   -> class SI  [0.939]
##
## Rule 27/9: (791.1/218.2, lift 1.7)
##   school_300 <= 4
##   PER_ATRAPADO_DESBARRANCADO_100 > 5
##   VEH_DESBARRANCADO_100 <= 0
##   -> class SI  [0.724]
##
## Rule 27/10: (3438/286.1, lift 2.2)
##   crossing_300 <= 0
##   hotel_300 <= 0
##   interseccion > 0
##   rtp_300 <= 2
##   traffic_signals_300 <= 8
##   ACC_FATAL_100 <= 0
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 7
##   ATROPELLADO_200 > 11
##   OTROS_200 <= 0
##   VOLCADURA_100 <= 3
##   -> class SI  [0.917]
##
## Rule 27/11: (684.3/214.5, lift 1.6)
##   restaurant > 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   -> class SI  [0.686]
##
## Rule 27/12: (2243.4/351.7, lift 2.0)
##   crossing_300 <= 0
##   interseccion > 0
##   rtp_300 <= 2
```

```
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_100 > 7
##    OTROS_200 > 0
##    VOLCADURA_100 <= 3
##    -> class SI  [0.843]
##
## Rule 27/13: (1150.5/365.6, lift 1.6)
##    nightclub_300 <= 2
##    school_300 <= 4
##    trolebus <= 0
##    ATROPELLADO_FATAL_100 > 0
##    PER_ATRAPADO_DESBARRANCADO_100 > 1
##    VEH_DESBARRANCADO_100 <= 0
##    -> class SI  [0.682]
##
## Rule 27/14: (4642.2/379.4, lift 2.2)
##    interseccion > 2
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 1
##    ATROPELLADO_100 > 4
##    -> class SI  [0.918]
##
## Rule 27/15: (426.1/98.4, lift 1.8)
##    trolebus > 0
##    -> class SI  [0.768]
##
## Rule 27/16: (559.8, lift 2.4)
##    interseccion > 0
##    rtp > 0
##    ACC_S_LESION_100 > 1
##    -> class SI  [0.998]
##
## Rule 27/17: (351.4/139.5, lift 1.4)
##    interseccion > 0
##    ACC_S_LESION_100 > 1
##    ACC_S_LESION_100 <= 7
##    ATROPELLADO_200 <= 8
##    ATROPELLADO_FATAL_100 > 0
##    -> class SI  [0.602]
##
## Rule 27/18: (133.7/22.7, lift 2.0)
##    nightclub_300 > 2
```

```
##    PER_ATRAPADO_DESBARRANCADO_100 > 1
##    PER_ATRAPADO_DESBARRANCADO_100 <= 5
##    -> class SI  [0.825]
##
## Rule 27/19: (3187.9/626.3, lift 1.9)
##    interseccion > 2
##    ACC_S_LESION_100 > 1
##    VOLCADURA_200 > 2
##    -> class SI  [0.803]
##
## Rule 27/20: (179.3/6.9, lift 2.3)
##    rtp > 0
##    PER_ATRAPADO_DESBARRANCADO_100 > 1
##    -> class SI  [0.957]
##
## Rule 27/21: (166.6, lift 2.4)
##    traffic_signals > 0
##    -> class SI  [0.994]
##
## Rule 27/22: (1934.4/212.5, lift 2.1)
##    interseccion > 0
##    metro_300 > 0
##    ACC_S_LESION_100 > 1
##    -> class SI  [0.890]
##
## Rule 27/23: (2116.2/134.4, lift 2.2)
##    interseccion > 0
##    restaurant_300 > 2
##    ACC_S_LESION_100 > 7
##    -> class SI  [0.936]
##
## Rule 27/24: (1672.5/249.9, lift 2.0)
##    interseccion > 0
##    ACC_S_LESION_100 > 7
##    VEH_ATRAPADO_100 <= 0
##    VEH_ATRAPADO_200 > 0
##    VOLCADURA_100 <= 3
##    -> class SI  [0.850]
##
## Rule 27/25: (103.5/20.4, lift 1.9)
##    interseccion > 0
##    ACC_C_LESION_100 <= 15
```

```
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 > 7
##   ACC_S_LESION_100 <= 17
##   ACC_S_LESION_200 <= 30
##   ATROPELLADO_FATAL_200 <= 0
##   VOLCADURA_100 > 3
##   ->  class SI  [0.797]
##
## Rule 27/26: (113.8, lift 2.4)
##   cruce_peligroso > 0
##   ->  class SI  [0.991]
##
## Rule 27/27: (121.7/31.3, lift 1.8)
##   crossing_300 <= 2
##   interseccion > 0
##   interseccion <= 2
##   ACC_PRENSADO_200 <= 0
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_100 <= 7
##   ATROPELLADO_200 > 8
##   MOTOCICLISTA_100 <= 1
##   MOTOCICLISTA_200 <= 4
##   OTROS_100 > 0
##   VEH_ATRAPADO_100 <= 0
##   ->  class SI  [0.739]
##
## Rule 27/28: (5603.4/748.5, lift 2.1)
##   interseccion > 2
##   traffic_signals_300 <= 2
##   ACC_PRENSADO_200 <= 0
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 > 35
##   ->  class SI  [0.866]
##
## Rule 27/29: (9857.5/1974, lift 1.7)
##   bar_300 <= 0
##   interseccion <= 2
##   rtp <= 0
##   rtp_300 <= 10
##   traffic_signals <= 0
##   ACC_C_LESION_200 <= 3
##   ACC_S_LESION_100 <= 17
```

```
##    PER_ATRAPADO_DESBARRANCADO_200 <= 2
##    VEH_DESBARRANCADO_200 <= 0
##    VOLCADURA_100 <= 2
##    -> class NO  [0.800]
##
## Rule 27/30: (860.4/87.6, lift 2.1)
##    interseccion > 0
##    school_300 > 2
##    ACC_S_LESION_100 > 7
##    -> class SI  [0.897]
##
## Rule 27/31: (400.5/40.2, lift 2.1)
##    hospital_300 > 0
##    interseccion > 2
##    ACC_S_LESION_100 > 1
##    -> class SI  [0.898]
##
## Rule 27/32: (198.9/47.6, lift 1.8)
##    metro > 0
##    trolebus <= 0
##    -> class SI  [0.758]
##
## Rule 27/33: (4573.5/720.7, lift 2.0)
##    interseccion > 0
##    ACC_FATAL_100 <= 0
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_100 > 7
##    ATROPELLADO_FATAL_200 > 0
##    -> class SI  [0.842]
##
## Rule 27/34: (6910.3/566.8, lift 2.2)
##    crossing_300 <= 0
##    interseccion > 0
##    traffic_signals_300 <= 8
##    ACC_C_LESION_200 > 22
##    ACC_FATAL_100 <= 0
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_100 > 7
##    -> class SI  [0.918]
##
## Rule 27/35: (153.2/38.8, lift 1.6)
##    interseccion <= 2
```

```
##  rtp <= 0
##  ACC_C_LESION_200 <= 22
##  ACC_FATAL_100 <= 0
##  ACC_S_LESION_100 > 7
##  ACC_S_LESION_100 <= 17
##  ACC_S_LESION_200 <= 30
##  ATROPELLADO_FATAL_200 <= 0
##  MOTOCICLISTA_200 <= 5
##  VEH_ATRAPADO_100 > 0
##  VOLCADURA_100 <= 3
##  -> class NO  [0.744]
##
## Rule 27/36: (1267.7/216.5, lift 2.0)
##  interseccion > 0
##  ACC_S_LESION_100 > 1
##  ATROPELLADO_200 > 8
##  VEH_ATRAPADO_100 > 0
##  -> class SI  [0.829]
##
## Rule 27/37: (416.9/119, lift 1.7)
##  interseccion > 0
##  ACC_PRENSADO_200 > 1
##  ACC_S_LESION_100 > 1
##  -> class SI  [0.714]
##
## Rule 27/38: (15061.8/3444.3, lift 1.7)
##  bar_300 <= 0
##  interseccion <= 2
##  metro_300 <= 0
##  rtp <= 0
##  traffic_signals_300 <= 2
##  ACC_S_LESION_100 <= 7
##  ACC_S_LESION_200 <= 53
##  ATROPELLADO_200 <= 8
##  ATROPELLADO_FATAL_100 <= 0
##  OTROS_100 <= 1
##  PER_ATRAPADO_DESBARRANCADO_100 <= 2
##  -> class NO  [0.771]
##
## Rule 27/39: (177.5/42.1, lift 1.8)
##  crossing_300 > 12
##  ACC_S_LESION_100 > 24
```

```
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##    ->  class SI  [0.760]
##
## Rule 27/40: (943.7/90.4, lift 2.1)
##   bar_300 > 0
##   interseccion > 0
##   ACC_S_LESION_100 > 1
##    ->  class SI  [0.903]
##
## Rule 27/41: (84.5/17.8, lift 1.9)
##   bar > 0
##   ACC_S_LESION_100 > 24
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   VEH_DESBARRANCADO_100 <= 0
##    ->  class SI  [0.783]
##
## Rule 27/42: (258.5/87.3, lift 1.6)
##   interseccion > 2
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_200 <= 53
##   ATROPELLADO_200 <= 8
##   VEH_ATRAPADO_100 > 0
##   VOLCADURA_200 <= 2
##    ->  class SI  [0.661]
##
## Rule 27/43: (1491.9/261.5, lift 2.0)
##   interseccion > 0
##   ACC_FATAL_100 > 0
##   ACC_S_LESION_100 > 7
##   PER_ATRAPADO_DESBARRANCADO_200 <= 3
##    ->  class SI  [0.824]
##
## Rule 27/44: (63/4.8, lift 2.0)
##   interseccion <= 2
##   rtp <= 0
##   ACC_C_LESION_100 > 15
##   ACC_C_LESION_200 <= 22
##   ACC_FATAL_200 <= 1
##   ACC_S_LESION_100 > 7
##   ACC_S_LESION_100 <= 17
##   ACC_S_LESION_200 <= 30
##   ATROPELLADO_200 <= 23
```

```
##  ->  class NO  [0.911]
##
## Rule 27/45: (454.3/37.8, lift 2.2)
##   interseccion > 0
##   PER_ATRAPADO_DESBARRANCADO_100 > 2
##  ->  class SI  [0.915]
##
## Rule 27/46: (31.4/5.1, lift 1.9)
##   hotel_300 <= 4
##   ACC_S_LESION_100 <= 24
##   ATROPELLADO_200 > 167
##  ->  class SI  [0.817]
##
## Rule 27/47: (54.9/9.5, lift 1.7)
##   bar_300 > 0
##   bar_300 <= 2
##   interseccion <= 2
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_100 <= 7
##   ATROPELLADO_200 > 8
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##  ->  class NO  [0.816]
##
## Rule 27/48: (55.9/10.1, lift 1.9)
##   school_300 <= 4
##   supermarket > 0
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##  ->  class SI  [0.808]
##
## Rule 27/49: (448.3/74.8, lift 2.0)
##   crossing_300 > 2
##   interseccion > 2
##   ACC_S_LESION_100 > 1
##  ->  class SI  [0.832]
##
## Rule 27/50: (35.1/6, lift 1.9)
##   kindergarten > 0
##   ACC_S_LESION_100 > 24
##  ->  class SI  [0.813]
##
## Rule 27/51: (49.5/6.3, lift 1.8)
##   interseccion <= 2
```

```
##   rtp <= 0
##   ACC_FATAL_200 > 1
##   ACC_S_LESION_100 > 7
##   ACC_S_LESION_200 <= 30
##   -> class NO  [0.858]
##
## Rule 27/52: (304.9/7.3, lift 2.3)
##   hospital_300 > 0
##   interseccion > 0
##   rtp_300 <= 2
##   ACC_S_LESION_100 > 7
##   VOLCADURA_100 <= 3
##   -> class SI  [0.973]
##
## Rule 27/53: (43.1/6.2, lift 2.0)
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   VEH_ATRAPADO_200 > 7
##   -> class SI  [0.841]
##
## Rule 27/54: (790.9/38.7, lift 2.3)
##   interseccion > 0
##   ATROPELLADO_200 > 8
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   -> class SI  [0.950]
##
## Rule 27/55: (50.2, lift 2.3)
##   interseccion > 0
##   interseccion <= 2
##   ACC_S_LESION_100 > 7
##   ACC_S_LESION_200 <= 30
##   ATROPELLADO_200 > 23
##   -> class SI  [0.981]
##
## Rule 27/56: (41.5/7.8, lift 1.9)
##   school > 0
##   school_300 <= 4
##   ACC_S_LESION_100 > 24
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   -> class SI  [0.798]
##
## Rule 27/57: (5285.8/460.4, lift 2.2)
##   interseccion > 0
```

```
##    ACC_FATAL_200 <= 1
##    ACC_S_LESION_100 > 7
##    MOTOCICLISTA_200 > 5
##    -> class SI   [0.913]
##
## Rule 27/58: (37.3/5.9, lift 1.8)
##    hotel_300 > 0
##    interseccion <= 2
##    restaurant_300 <= 2
##    ACC_S_LESION_100 > 7
##    ACC_S_LESION_200 <= 30
##    -> class NO   [0.825]
##
## Rule 27/59: (590.6/83.1, lift 2.0)
##    interseccion > 0
##    ACC_S_LESION_100 > 1
##    OTROS_100 > 1
##    -> class SI   [0.858]
##
## Rule 27/60: (1658.3/75.8, lift 2.3)
##    interseccion > 0
##    ACC_PRENSADO_200 <= 1
##    ACC_S_LESION_100 > 1
##    ATROPELLADO_200 > 55
##    -> class SI   [0.954]
##
## Rule 27/61: (190.9/7, lift 2.3)
##    interseccion > 2
##    ATROPELLADO_200 > 8
##    VOLCADURA_200 > 21
##    -> class SI   [0.958]
##
## Rule 27/62: (34.3/7.3, lift 1.7)
##    metro_300 <= 0
##    ACC_S_LESION_100 <= 7
##    ATROPELLADO_200 > 8
##    ATROPELLADO_200 <= 55
##    OTROS_200 > 3
##    -> class NO   [0.772]
##
## Rule 27/63: (43/6, lift 2.0)
##    trolebus <= 0
```

```
##    OTROS_100 > 4
##    PER_ATRAPADO_DESBARRANCADO_100 > 1
##    VEH_DESBARRANCADO_100 <= 0
##    -> class SI  [0.844]
##
## Rule 27/64: (760.4/128.5, lift 2.0)
##    crossing_300 <= 2
##    interseccion > 2
##    ACC_PRENSADO_200 > 0
##    ACC_S_LESION_100 > 1
##    VEH_ATRAPADO_100 <= 0
##    -> class SI  [0.830]
##
## Rule 27/65: (283.7/45.3, lift 1.8)
##    interseccion <= 0
##    rtp <= 0
##    traffic_signals <= 0
##    VEH_DESBARRANCADO_100 > 0
##    -> class NO  [0.838]
##
## Rule 27/66: (40.3, lift 2.3)
##    crossing > 0
##    PER_ATRAPADO_DESBARRANCADO_100 > 1
##    -> class SI  [0.976]
##
## Default class: NO
##
## -----  Trial 28:  -----
##
## Rules:
##
## Rule 28/1: (58033.2/20483.5, lift 1.4)
##    interseccion > 0
##    -> class SI  [0.647]
##
## Rule 28/2: (24034.5/5384.9, lift 1.9)
##    interseccion <= 0
##    traffic_signals <= 0
##    -> class NO  [0.776]
##
## Rule 28/3: (9020.4/1772.4, lift 1.9)
##    bar_300 <= 0
```

```
##    crossing_300 <= 2
##    restaurant <= 0
##    rtp <= 0
##    school_300 <= 2
##    ACC_C_LESION_100 <= 1
##    ACC_S_LESION_100 <= 3
##    ACC_S_LESION_200 <= 35
##    ATROPELLADO_200 <= 11
##    MOTOCICLISTA_200 <= 4
##    OTROS_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 1
##    VEH_ATRAPADO_100 <= 0
##    VEH_DESBARRANCADO_200 <= 0
##    ->  class NO  [0.803]
##
## Rule 28/4: (7756.4/1179.9, lift 2.0)
##    bar_300 <= 0
##    interseccion <= 2
##    restaurant <= 0
##    rtp <= 0
##    traffic_signals_300 <= 14
##    ACC_C_LESION_100 <= 0
##    ACC_S_LESION_100 <= 10
##    MOTOCICLISTA_100 <= 1
##    OTROS_200 <= 1
##    PER_ATRAPADO_DESBARRANCADO_100 <= 1
##    VEH_DESBARRANCADO_100 <= 0
##    ->  class NO  [0.848]
##
## Rule 28/5: (7086.4/872.1, lift 2.1)
##    bar_300 <= 0
##    rtp <= 0
##    ACC_C_LESION_100 <= 1
##    ACC_S_LESION_100 <= 3
##    ACC_S_LESION_200 <= 264
##    ATROPELLADO_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 1
##    ->  class NO  [0.877]
##
## Rule 28/6: (1242.9/274.8, lift 1.9)
```

```
##  hospital_300 <= 0
##  interseccion <= 2
##  rtp <= 0
##  rtp_300 > 4
##  ACC_C_LESION_200 <= 5
##  ACC_S_LESION_100 <= 10
##  ATROPELLADO_FATAL_200 <= 1
##  PER_ATRAPADO_DESBARRANCADO_100 <= 0
##  VEH_ATRAPADO_100 <= 0
##  VEH_ATRAPADO_200 <= 1
##  VOLCADURA_100 <= 4
##  ->  class NO  [0.778]
##
## Rule 28/7: (179/17.1, lift 2.0)
##  metrobus > 0
##  ->  class SI  [0.900]
##
## Rule 28/8: (3031.8/74.3, lift 2.4)
##  hospital_300 <= 0
##  interseccion <= 2
##  rtp <= 0
##  ACC_S_LESION_100 <= 3
##  ATROPELLADO_200 <= 0
##  ->  class NO  [0.975]
##
## Rule 28/9: (3055.4, lift 2.4)
##  ACC_S_LESION_100 <= 0
##  ->  class NO  [1.000]
##
## Rule 28/10: (176.4/18.9, lift 2.1)
##  interseccion <= 2
##  ACC_S_LESION_100 > 10
##  ACC_S_LESION_200 <= 29
##  OTROS_200 <= 1
##  PER_ATRAPADO_DESBARRANCADO_200 <= 1
##  VOLCADURA_100 > 5
##  ->  class NO  [0.889]
##
## Rule 28/11: (384/89.9, lift 1.8)
##  crossing_300 <= 2
##  interseccion > 2
##  ACC_C_LESION_100 <= 1
```

```
##   ACC_C_LESION_200 <= 24
##   ACC_S_LESION_100 <= 3
##   ACC_S_LESION_200 > 35
##   MOTOCICLISTA_200 <= 4
##   OTROS_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   ->  class NO  [0.764]
##
## Rule 28/12: (408.9/96.6, lift 1.8)
##   hospital_300 <= 0
##   interseccion <= 2
##   rtp <= 0
##   rtp_300 > 4
##   school_300 > 0
##   school_300 <= 2
##   ACC_S_LESION_100 <= 10
##   ATROPELLADO_FATAL_200 <= 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   VEH_DESBARRANCADO_200 <= 0
##   ->  class NO  [0.762]
##
## Rule 28/13: (147.4, lift 2.2)
##   traffic_signals > 0
##   ->  class SI  [0.993]
##
## Rule 28/14: (128.1/18.6, lift 2.1)
##   crossing_300 <= 6
##   interseccion <= 2
##   rtp_300 <= 4
##   ACC_C_LESION_200 <= 16
##   ACC_S_LESION_100 <= 10
##   ACC_S_LESION_200 <= 27
##   MOTOCICLISTA_200 <= 5
##   PER_ATRAPADO_DESBARRANCADO_100 <= 1
##   PER_ATRAPADO_DESBARRANCADO_200 > 1
##   PER_ATRAPADO_DESBARRANCADO_200 <= 2
##   VOLCADURA_100 <= 4
##   ->  class NO  [0.849]
##
## Rule 28/15: (185.1/47.3, lift 1.8)
##   hospital_300 <= 0
```

```
##   interseccion <= 2
##   restaurant_300 <= 4
##   rtp_300 <= 4
##   school_300 <= 2
##   traffic_signals_300 > 4
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 <= 10
##   ACC_S_LESION_200 > 27
##   ATROPELLADO_100 <= 7
##   ATROPELLADO_FATAL_200 <= 1
##   OTROS_200 <= 1
##   ->  class NO  [0.742]
##
## Rule 28/16: (100.7, lift 2.2)
##   cruce_peligroso > 0
##   ->  class SI  [0.990]
##
## Rule 28/17: (137.4/33.4, lift 1.8)
##   hospital_300 <= 0
##   interseccion <= 2
##   rtp_300 <= 4
##   school_300 <= 2
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 10
##   ATROPELLADO_100 <= 7
##   ATROPELLADO_FATAL_200 > 1
##   OTROS_200 <= 1
##   ->  class NO  [0.753]
##
## Rule 28/18: (138.7/26.8, lift 1.9)
##   interseccion > 2
##   ACC_C_LESION_100 <= 1
##   ACC_S_LESION_100 <= 3
##   OTROS_100 <= 0
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   VEH_DESBARRANCADO_200 > 0
##   ->  class NO  [0.803]
##
## Rule 28/19: (61.2/7.5, lift 2.1)
##   interseccion > 2
##   school_300 <= 2
```

```
##   ACC_C_LESION_100 <= 1
##   ACC_C_LESION_200 > 30
##   ACC_S_LESION_100 <= 3
##   ACC_S_LESION_200 <= 264
##   ATROPELLADO_100 > 0
##   ATROPELLADO_FATAL_200 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   ->  class NO  [0.865]
##
## Rule 28/20: (172.3/48.5, lift 1.7)
##   interseccion > 0
##   interseccion <= 2
##   restaurant_300 <= 0
##   ACC_C_LESION_100 > 11
##   ACC_C_LESION_200 <= 22
##   ACC_S_LESION_100 > 10
##   ACC_S_LESION_100 <= 18
##   ACC_S_LESION_200 <= 29
##   ->  class NO  [0.716]
##
## Rule 28/21: (110/22.7, lift 1.9)
##   hospital_300 <= 0
##   interseccion <= 2
##   nightclub_300 <= 0
##   restaurant_300 <= 12
##   rtp <= 0
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 10
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   ->  class NO  [0.789]
##
## Rule 28/22: (108.7/9.1, lift 2.2)
##   interseccion > 2
##   ACC_C_LESION_100 <= 1
##   ACC_S_LESION_100 <= 3
##   ACC_S_LESION_200 <= 264
##   ATROPELLADO_FATAL_200 > 1
##   ->  class NO  [0.908]
##
## Rule 28/23: (105.8/22.7, lift 1.9)
##   interseccion <= 2
```

```
##   rtp <= 0
##   rtp_300 > 4
##   school_300 <= 0
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 10
##   ATROPELLADO_FATAL_100 <= 0
##   ATROPELLADO_FATAL_200 <= 1
##   PER_ATRAPADO_DESBARRANCADO_100 > 0
##   PER_ATRAPADO_DESBARRANCADO_200 <= 1
##   VEH_ATRAPADO_100 <= 0
##   VOLCADURA_100 <= 3
##   -> class NO  [0.780]
##
## Rule 28/24: (92/17.2, lift 1.9)
##   interseccion <= 2
##   rtp_300 > 4
##   school_300 <= 2
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 10
##   VEH_ATRAPADO_100 > 0
##   VEH_ATRAPADO_200 <= 1
##   VEH_DESBARRANCADO_200 <= 0
##   -> class NO  [0.807]
##
## Rule 28/25: (142/16.5, lift 2.1)
##   interseccion <= 2
##   restaurant <= 0
##   rtp_300 <= 4
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 <= 6
##   ACC_S_LESION_200 <= 27
##   ATROPELLADO_100 <= 7
##   ATROPELLADO_FATAL_100 > 0
##   OTROS_200 <= 1
##   -> class NO  [0.878]
##
## Rule 28/26: (116.1/10.8, lift 2.2)
##   interseccion <= 2
##   ACC_S_LESION_100 <= 10
##   VOLCADURA_100 > 8
##   -> class NO  [0.900]
##
```

```
## Rule 28/27: (36.3, lift 2.4)
##    traffic_signals_300 > 14
##    ACC_C_LESION_100 <= 0
##    ACC_S_LESION_100 > 3
##    ->  class NO  [0.974]
##
## Rule 28/28: (120.1/25.7, lift 1.9)
##    interseccion <= 2
##    school_300 <= 2
##    ACC_C_LESION_100 > 0
##    ACC_S_LESION_100 <= 10
##    VEH_DESBARRANCADO_200 <= 0
##    VOLCADURA_100 > 3
##    VOLCADURA_100 <= 4
##    ->  class NO  [0.781]
##
## Rule 28/29: (71/11.9, lift 2.0)
##    interseccion <= 2
##    rtp_300 <= 4
##    ACC_C_LESION_100 > 0
##    ACC_C_LESION_200 > 13
##    ACC_C_LESION_200 <= 16
##    ACC_S_LESION_100 > 6
##    ACC_S_LESION_100 <= 10
##    ACC_S_LESION_200 <= 27
##    ATROPELLADO_100 <= 7
##    PER_ATRAPADO_DESBARRANCADO_100 <= 0
##    PER_ATRAPADO_DESBARRANCADO_200 <= 2
##    VEH_DESBARRANCADO_200 <= 0
##    ->  class NO  [0.823]
##
## Rule 28/30: (61.1/15.1, lift 1.8)
##    interseccion <= 2
##    rtp_300 <= 4
##    ACC_C_LESION_100 > 0
##    ACC_C_LESION_200 <= 16
##    ACC_S_LESION_100 > 3
##    ACC_S_LESION_100 <= 10
##    ACC_S_LESION_200 <= 27
##    ATROPELLADO_100 <= 7
##    ATROPELLADO_200 > 16
##    ->  class NO  [0.745]
```

```
##
## Rule 28/31: (88.6/19.3, lift 1.9)
##   turning_circle > 0
##   ->  class NO  [0.776]
##
## Rule 28/32: (66/8.9, lift 2.1)
##   crossing_300 > 6
##   interseccion <= 2
##   rtp_300 <= 4
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 10
##   ACC_S_LESION_200 > 27
##   PER_ATRAPADO_DESBARRANCADO_200 <= 2
##   ->  class NO  [0.854]
##
## Rule 28/33: (28.4, lift 2.3)
##   bar_300 > 0
##   interseccion > 2
##   ACC_C_LESION_100 <= 1
##   ACC_S_LESION_100 <= 3
##   ->  class NO  [0.967]
##
## Rule 28/34: (29.7/2.7, lift 1.9)
##   nightclub > 0
##   rtp <= 0
##   ->  class SI  [0.882]
##
## Rule 28/35: (96.8/18.2, lift 1.9)
##   interseccion <= 2
##   rtp <= 0
##   ACC_C_LESION_100 > 0
##   ACC_C_LESION_200 <= 16
##   ACC_S_LESION_100 <= 10
##   ACC_S_LESION_200 <= 27
##   ATROPELLADO_100 > 6
##   ATROPELLADO_100 <= 7
##   ATROPELLADO_200 <= 13
##   PER_ATRAPADO_DESBARRANCADO_100 <= 0
##   VEH_DESBARRANCADO_200 <= 0
##   ->  class NO  [0.805]
##
## Rule 28/36: (46.3/11.1, lift 1.8)
```

```
##   interseccion > 0
##   interseccion <= 2
##   nightclub_300 > 0
##   restaurant_300 <= 12
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 10
##   PER_ATRAPADO_DESBARRANCADO_100 <= 2
##   -> class NO  [0.750]
##
## Rule 28/37: (161.9/35.6, lift 1.9)
##   hospital_300 <= 0
##   interseccion <= 2
##   rtp <= 0
##   rtp_300 > 4
##   ACC_S_LESION_100 <= 10
##   ATROPELLADO_FATAL_100 > 0
##   ATROPELLADO_FATAL_200 <= 1
##   -> class NO  [0.776]
##
## Rule 28/38: (76.1, lift 2.2)
##   interseccion > 2
##   ACC_C_LESION_100 <= 1
##   ACC_C_LESION_200 > 24
##   ACC_C_LESION_200 <= 30
##   ATROPELLADO_100 > 0
##   ATROPELLADO_FATAL_200 <= 1
##   -> class SI  [0.987]
##
## Rule 28/39: (953.6/79.9, lift 2.0)
##   interseccion > 0
##   school_300 > 2
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 > 3
##   -> class SI  [0.915]
##
## Rule 28/40: (153.4/39.6, lift 1.8)
##   interseccion <= 2
##   ACC_S_LESION_100 > 3
##   ACC_S_LESION_100 <= 10
##   ATROPELLADO_FATAL_200 > 2
##   -> class NO  [0.739]
##
```

```
## Rule 28/41: (4501.8/27.7, lift 2.2)
##   interseccion > 2
##   ACC_S_LESION_100 > 10
##   -> class SI  [0.994]
##
## Default class: SI
##
## -----  Trial 29:  -----
##
## Rules:
##
## Rule 29/1: (76352.2/37427.7, lift 1.2)
##   cruce_peligroso <= 0
##   metrobus <= 0
##   rtp <= 0
##   traffic_signals <= 0
##   -> class NO  [0.510]
##
## Rule 29/2: (16407/1634.9, lift 2.1)
##   interseccion > 0
##   ACC_S_LESION_100 > 9
##   VOLCADURA_100 <= 6
##   -> class SI  [0.900]
##
## Rule 29/3: (12151.2/2033.1, lift 1.9)
##   interseccion > 2
##   ACC_C_LESION_200 > 0
##   ACC_S_LESION_100 > 1
##   ATROPELLADO_100 > 0
##   -> class SI  [0.833]
##
## Rule 29/4: (3963.1/662.6, lift 1.9)
##   rtp > 0
##   -> class SI  [0.833]
##
## Rule 29/5: (13972.4/1847.5, lift 2.0)
##   crossing_300 <= 2
##   interseccion > 0
##   rtp_300 <= 4
##   traffic_signals_300 <= 12
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_200 > 19
```

```
##      VEH_DESBARRANCADO_200 <= 1
##      VOLCADURA_200 <= 15
##      -> class SI  [0.868]
##
## Rule 29/6: (1637.3/386.2, lift 1.8)
##      ATROPELLADO_100 > 67
##      -> class SI  [0.764]
##
## Rule 29/7: (825/133.3, lift 1.9)
##      ACC_S_LESION_100 > 9
##      PER_ATRAPADO_DESBARRANCADO_100 > 7
##      -> class SI  [0.838]
##
## Rule 29/8: (4028.9/349, lift 2.1)
##      interseccion > 0
##      ACC_C_LESION_200 > 3
##      ACC_S_LESION_100 > 1
##      MOTOCICLISTA_100 > 2
##      -> class SI  [0.913]
##
## Rule 29/9: (658.9/103.5, lift 1.9)
##      trolebus > 0
##      -> class SI  [0.842]
##
## Rule 29/10: (432.1/53, lift 2.0)
##      hotel_300 > 10
##      -> class SI  [0.876]
##
## Rule 29/11: (4721.6/212.3, lift 2.2)
##      interseccion > 2
##      ACC_S_LESION_100 > 4
##      VOLCADURA_200 > 0
##      -> class SI  [0.955]
##
## Rule 29/12: (289.6/29.2, lift 2.1)
##      metro <= 0
##      MOTOCICLISTA_200 > 33
##      -> class SI  [0.896]
##
## Rule 29/13: (1395.2/195.6, lift 2.0)
##      hospital_300 > 0
##      interseccion > 0
```

```
## -> class SI  [0.859]
##
## Rule 29/14: (242/16.6, lift 2.1)
##   interseccion > 0
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_200 <= 19
##   ATROPELLADO_200 > 14
##   VOLCADURA_200 <= 15
##  -> class SI  [0.928]
##
## Rule 29/15: (794/44.7, lift 2.2)
##   interseccion > 2
##   ACC_S_LESION_100 > 1
##   PER_ATRAPADO_DESBARRANCADO_200 > 1
##  -> class SI  [0.943]
##
## Rule 29/16: (144/0.4, lift 2.3)
##   metrobus > 0
##  -> class SI  [0.990]
##
## Rule 29/17: (95.1, lift 2.3)
##   nightclub_300 > 4
##   PER_ATRAPADO_DESBARRANCADO_200 > 5
##  -> class SI  [0.990]
##
## Rule 29/18: (228.1/58.1, lift 1.7)
##   interseccion > 0
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_100 <= 4
##   VEH_DESBARRANCADO_100 > 0
##  -> class SI  [0.743]
##
## Rule 29/19: (1126/54.9, lift 2.2)
##   interseccion > 0
##   rtp_300 > 4
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_200 > 19
##   PER_ATRAPADO_DESBARRANCADO_100 > 0
##  -> class SI  [0.950]
##
## Rule 29/20: (356.6/65.1, lift 1.9)
##   interseccion > 0
```

```
##   rtp_300 <= 2
##   traffic_signals_300 <= 2
##   ACC_C_LESION_100 > 0
##   ACC_FATAL_100 <= 0
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_100 <= 9
##   ATROPELLADO_200 <= 14
##   OTROS_200 <= 1
##   VEH_DESBARRANCADO_200 <= 0
##   VOLCADURA_200 > 2
##   VOLCADURA_200 <= 15
##   ->  class SI  [0.816]
##
## Rule 29/21: (2234.6/353.4, lift 1.9)
##   interseccion > 0
##   traffic_signals_300 > 2
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 > 4
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_200 <= 15
##   ->  class SI  [0.842]
##
## Rule 29/22: (136.8, lift 2.3)
##   traffic_signals > 0
##   ->  class SI  [0.993]
##
## Rule 29/23: (5407.9/52.3, lift 2.3)
##   interseccion > 2
##   ACC_S_LESION_100 > 7
##   ->  class SI  [0.990]
##
## Rule 29/24: (316.4/25.6, lift 2.1)
##   PER_ATRAPADO_DESBARRANCADO_200 > 18
##   ->  class SI  [0.917]
##
## Rule 29/25: (368.9/86.6, lift 1.8)
##   metro > 0
##   trolebus <= 0
##   ->  class SI  [0.764]
##
## Rule 29/26: (518.4/19, lift 2.2)
##   interseccion > 0
```

```
##    ACC_S_LESION_100 > 1
##    MOTOCICLISTA_200 > 17
##    ->  class SI  [0.962]
##
## Rule 29/27: (1454.1/122.5, lift 2.1)
##    interseccion > 0
##    rtp_300 <= 2
##    ACC_C_LESION_100 > 0
##    ACC_FATAL_100 <= 0
##    ACC_S_LESION_100 > 4
##    ATROPELLADO_FATAL_200 > 0
##    VEH_DESBARRANCADO_200 <= 0
##    VOLCADURA_100 <= 3
##    ->  class SI  [0.915]
##
## Rule 29/28: (42.5, lift 2.3)
##    interseccion > 0
##    interseccion <= 2
##    ACC_C_LESION_200 <= 3
##    ACC_S_LESION_100 > 1
##    ACC_S_LESION_100 <= 4
##    ATROPELLADO_200 > 13
##    ->  class SI  [0.978]
##
## Rule 29/29: (481.8/32.2, lift 2.1)
##    interseccion > 2
##    ACC_S_LESION_100 > 1
##    VEH_ATRAPADO_100 > 0
##    ->  class SI  [0.931]
##
## Rule 29/30: (86.9/5.8, lift 2.1)
##    traffic_signals_300 > 30
##    PER_ATRAPADO_DESBARRANCADO_200 > 5
##    ->  class SI  [0.923]
##
## Rule 29/31: (74.8/0.9, lift 2.2)
##    interseccion > 0
##    ACC_S_LESION_100 <= 9
##    VEH_ATRAPADO_200 > 2
##    ->  class SI  [0.975]
##
## Rule 29/32: (161.8/33.9, lift 1.9)
```

```
##   rtp <= 0
##   ACC_S_LESION_100 > 9
##   ACC_S_LESION_100 <= 16
##   VOLCADURA_100 > 6
##   ->  class NO  [0.787]
##
## Rule 29/33: (1136.8/33.5, lift 2.2)
##   interseccion > 0
##   ACC_FATAL_100 > 0
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_200 > 19
##   ->  class SI  [0.970]
##
## Rule 29/34: (112.9/16.7, lift 2.0)
##   hospital_300 <= 0
##   interseccion <= 2
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_100 <= 9
##   ACC_S_LESION_200 <= 19
##   OTROS_200 <= 1
##   VEH_DESBARRANCADO_200 > 0
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_100 <= 3
##   ->  class NO  [0.846]
##
## Rule 29/35: (107.1/1.6, lift 2.2)
##   restaurant > 4
##   PER_ATRAPADO_DESBARRANCADO_200 > 5
##   ->  class SI  [0.976]
##
## Rule 29/36: (119/6.4, lift 2.2)
##   interseccion > 0
##   school > 0
##   ->  class SI  [0.939]
##
## Rule 29/37: (56.3/12.5, lift 1.8)
##   interseccion > 0
##   ACC_S_LESION_100 > 1
##   ACC_S_LESION_100 <= 4
##   VOLCADURA_200 > 22
##   VOLCADURA_200 <= 44
```

```
##   ->  class SI  [0.769]
##
## Rule 29/38: (495.5/39.6, lift 2.1)
##   interseccion > 2
##   ACC_FATAL_100 > 0
##   ACC_S_LESION_100 > 1
##   ->  class SI  [0.918]
##
## Rule 29/39: (89.3, lift 2.3)
##   cruce_peligroso > 0
##   ->  class SI  [0.989]
##
## Rule 29/40: (1321.5/16.3, lift 2.3)
##   interseccion > 0
##   traffic_signals_300 <= 12
##   ACC_C_LESION_200 > 74
##   ACC_S_LESION_100 > 4
##   VEH_DESBARRANCADO_200 <= 1
##   VOLCADURA_200 <= 15
##   ->  class SI  [0.987]
##
## Rule 29/41: (43.5/1.5, lift 2.3)
##   interseccion > 2
##   rtp <= 0
##   ACC_S_LESION_100 <= 7
##   ATROPELLADO_200 <= 8
##   ATROPELLADO_FATAL_200 > 1
##   ->  class NO  [0.944]
##
## Rule 29/42: (121.8/12, lift 2.1)
##   interseccion <= 2
##   rtp <= 0
##   ACC_S_LESION_100 <= 9
##   VEH_DESBARRANCADO_100 <= 1
##   VEH_DESBARRANCADO_200 > 1
##   ->  class NO  [0.895]
##
## Rule 29/43: (102.5/14.6, lift 2.0)
##   hospital_300 <= 0
##   interseccion <= 2
##   traffic_signals_300 > 12
##   ACC_FATAL_100 <= 0
```

```
##    ACC_S_LESION_100 > 4
##    ACC_S_LESION_100 <= 9
##    -> class NO  [0.850]
##
## Rule 29/44: (2426.4/287.9, lift 2.0)
##   interseccion > 0
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 > 2
##   PER_ATRAPADO_DESBARRANCADO_200 > 1
##   VOLCADURA_200 <= 44
##   -> class SI  [0.881]
##
## Rule 29/45: (72.5/1.6, lift 2.3)
##   interseccion <= 2
##   ACC_C_LESION_100 > 0
##   ACC_S_LESION_100 <= 4
##   PER_ATRAPADO_DESBARRANCADO_100 > 1
##   -> class NO  [0.964]
##
## Rule 29/46: (271.9/57.3, lift 1.8)
##   hotel > 0
##   -> class SI  [0.787]
##
## Rule 29/47: (3488.5/83.9, lift 2.2)
##   interseccion > 0
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_200 > 19
##   ATROPELLADO_100 > 10
##   VEH_ATRAPADO_100 <= 0
##   -> class SI  [0.976]
##
## Rule 29/48: (660.5/5.2, lift 2.3)
##   bar_300 > 0
##   interseccion > 0
##   ACC_S_LESION_100 > 4
##   -> class SI  [0.991]
##
## Rule 29/49: (1142.9/113.1, lift 2.1)
##   interseccion > 0
##   restaurant_300 > 4
##   school_300 <= 2
##   ACC_C_LESION_200 > 3
```

```
##    ACC_S_LESION_100 > 1
##    ->  class SI  [0.900]
##
## Rule 29/50: (93.5/4.3, lift 2.2)
##    interseccion > 0
##    supermarket > 0
##    ->  class SI  [0.944]
##
## Rule 29/51: (77.9/13.9, lift 1.9)
##    interseccion > 0
##    ACC_C_LESION_100 > 0
##    ACC_S_LESION_100 > 4
##    ACC_S_LESION_100 <= 9
##    ACC_S_LESION_200 <= 19
##    OTROS_200 > 1
##    VOLCADURA_200 <= 15
##    ->  class SI  [0.813]
##
## Rule 29/52: (65.6, lift 2.3)
##    MOTOCICLISTA_100 > 19
##    PER_ATRAPADO_DESBARRANCADO_200 > 5
##    ->  class SI  [0.985]
##
## Rule 29/53: (3664.1/51.5, lift 2.3)
##    interseccion > 2
##    ACC_S_LESION_100 > 4
##    ATROPELLADO_FATAL_200 <= 1
##    MOTOCICLISTA_100 > 0
##    ->  class SI  [0.986]
##
## Rule 29/54: (47, lift 2.3)
##    crossing > 0
##    PER_ATRAPADO_DESBARRANCADO_200 > 5
##    ->  class SI  [0.980]
##
## Rule 29/55: (48.9/3.2, lift 2.1)
##    interseccion > 0
##    VEH_DESBARRANCADO_100 > 1
##    VOLCADURA_200 <= 15
##    ->  class SI  [0.918]
##
## Rule 29/56: (152.3/0.5, lift 2.3)
```

```
##    interseccion > 0
##    restaurant > 0
##    ->  class SI  [0.990]
##
## Rule 29/57: (77.9, lift 2.3)
##    interseccion > 0
##    ACC_S_LESION_100 <= 9
##    ACC_S_LESION_200 <= 19
##    ATROPELLADO_100 > 10
##    VEH_DESBARRANCADO_100 <= 1
##    ->  class SI  [0.987]
##
## Rule 29/58: (1041/179.7, lift 1.9)
##    interseccion > 0
##    school_300 > 2
##    ACC_C_LESION_200 > 3
##    ACC_S_LESION_100 > 1
##    ->  class SI  [0.827]
##
## Rule 29/59: (237.5/51.7, lift 1.8)
##    VEH_ATRAPADO_100 > 2
##    ->  class SI  [0.780]
##
## Rule 29/60: (3043.6/502.6, lift 2.0)
##    hospital_300 <= 0
##    interseccion <= 2
##    rtp <= 0
##    rtp_300 > 2
##    school <= 0
##    traffic_signals_300 <= 2
##    ACC_S_LESION_100 <= 9
##    ACC_S_LESION_200 <= 19
##    ATROPELLADO_100 <= 10
##    ATROPELLADO_200 <= 14
##    OTROS_200 <= 1
##    VEH_DESBARRANCADO_200 <= 0
##    VOLCADURA_100 <= 3
##    ->  class NO  [0.835]
##
## Rule 29/61: (34.3, lift 2.2)
##    bank > 2
##    PER_ATRAPADO_DESBARRANCADO_200 > 5
```

```
##   ->  class SI  [0.972]
##
## Rule 29/62: (269.9/66.1, lift 1.7)
##   bar > 0
##   bar_300 <= 28
##   ->  class SI  [0.753]
##
## Rule 29/63: (160.3/15.3, lift 2.1)
##   interseccion <= 2
##   restaurant <= 0
##   rtp <= 0
##   ACC_FATAL_200 <= 2
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_100 <= 9
##   VEH_ATRAPADO_200 <= 2
##   VOLCADURA_200 > 15
##   ->  class NO  [0.900]
##
## Rule 29/64: (101.1/20.1, lift 1.8)
##   interseccion > 0
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_100 <= 9
##   ACC_S_LESION_200 <= 19
##   OTROS_200 <= 1
##   VOLCADURA_100 > 3
##   VOLCADURA_200 <= 15
##   ->  class SI  [0.795]
##
## Rule 29/65: (1189/78.2, lift 2.1)
##   interseccion > 0
##   ACC_S_LESION_100 > 4
##   ACC_S_LESION_200 > 19
##   VEH_ATRAPADO_100 > 0
##   ->  class SI  [0.933]
##
## Rule 29/66: (5133/125, lift 2.2)
##   interseccion > 2
##   ACC_S_LESION_100 > 4
##   ATROPELLADO_200 > 8
##   ->  class SI  [0.975]
##
## Rule 29/67: (172, lift 2.3)
```

```
##   interseccion > 2
##   traffic_signals_300 > 0
##   ACC_S_LESION_100 > 4
##   ATROPELLADO_200 <= 8
##   ->  class SI  [0.994]
##
## Rule 29/68: (199, lift 2.3)
##   interseccion > 0
##   ACC_FATAL_200 > 2
##   ACC_S_LESION_100 > 4
##   ->  class SI  [0.995]
##
## Default class: SI
##
##
## Evaluation on training data (94510 cases):
##
## Trial            Rules
## -----        ----------------
##       No       Errors
##
##    0       20 15648(16.6%)
##    1       29 20153(21.3%)
##    2       15 18929(20.0%)
##    3       34 22829(24.2%)
##    4       26 22148(23.4%)
##    5       44 24674(26.1%)
##    6       37 21864(23.1%)
##    7       27 27258(28.8%)
##    8       47 27141(28.7%)
##    9       29 20701(21.9%)
##   10       25 27744(29.4%)
##   11        5 30943(32.7%)
##   12       37 23903(25.3%)
##   13       28 24978(26.4%)
##   14        7 33080(35.0%)
##   15        5 19667(20.8%)
##   16       29 24635(26.1%)
##   17        2 33437(35.4%)
##   18        7 17299(18.3%)
##   19       13 32974(34.9%)
##   20       13 26970(28.5%)
```

```
##    21       37 26062(27.6%)
##    22       22 19528(20.7%)
##    23       29 18597(19.7%)
##    24       60 18248(19.3%)
##    25       52 17145(18.1%)
##    26       37 16148(17.1%)
##    27       66 16042(17.0%)
##    28       41 15765(16.7%)
##    29       68 15766(16.7%)
## boost          15227(16.1%)   <<
##
##
##      (a)    (b)    <-classified as
##      ----   ----
##   49864   7818     (a): class NO
##    7409 29419     (b): class SI
##
##
##  Attribute usage:
##
##  100.00% cruce_peligroso
##  100.00% interseccion
##  100.00% traffic_signals
##  100.00% ACC_S_LESION_100
##  100.00% ACC_S_LESION_200
##  100.00% ATROPELLADO_100
##  100.00% MOTOCICLISTA_100
##   99.79% metro_300
##   99.79% ACC_C_LESION_100
##   99.77% ACC_FATAL_200
##   99.62% traffic_signals_300
##   99.60% rtp
##   99.45% ATROPELLADO_200
##   99.41% VEH_DESBARRANCADO_200
##   99.25% PER_ATRAPADO_DESBARRANCADO_100
##   99.15% restaurant
##   98.85% nightclub_300
##   97.66% trolebus
##   97.63% VEH_ATRAPADO_100
##   97.58% VOLCADURA_100
##   97.48% MOTOCICLISTA_200
##   97.31% turning_circle
```

```
##       97.30%   OTROS_200
##       96.98%   metrobus
##       94.66%   ACC_PRENSADO_200
##       94.53%   school_300
##       94.36%   bar_300
##       94.01%   ATROPELLADO_FATAL_100
##       93.84%   hotel_300
##       93.17%   PER_ATRAPADO_DESBARRANCADO_200
##       92.36%   VEH_ATRAPADO_200
##       92.34%   ACC_C_LESION_200
##       90.09%   ACC_PRENSADO_100
##       89.33%   supermarket
##       88.81%   ATROPELLADO_FATAL_200
##       88.46%   ACC_FATAL_100
##       87.31%   restaurant_300
##       87.21%   hospital_300
##       86.85%   crossing_300
##       85.29%   OTROS_100
##       84.62%   school
##       81.83%   rtp_300
##       81.01%   VEH_DESBARRANCADO_100
##       75.57%   bank
##       64.69%   crossing
##       61.77%   bar
##       55.30%   attraction
##       54.29%   metro
##       52.67%   hotel
##       51.90%   VOLCADURA_200
##       49.94%   cetram
##       42.28%   FERROVIARIO_200
##        8.93%   FERROVIARIO_100
##        7.70%   hospital
##        6.34%   speed_camera_300
##        1.63%   museum
##        1.52%   cinema
##        0.05%   kindergarten
##        0.02%   nightclub
##
##
## Time: 204.9 secs
```

Vemos la importancia de las variales predictoras y las graficamos

```
importancia_usage <- C5imp(rules_100_C50, metric = "usage")
importancia_usage <- importancia_usage %>%
  rownames_to_column(var = "predictor")
importancia_usage
```

```
##                                predictor Overall
## 1                         cruce_peligroso  100.00
## 2                              interseccion  100.00
## 3                           traffic_signals  100.00
## 4                         ACC_S_LESION_100  100.00
## 5                         ACC_S_LESION_200  100.00
## 6                          ATROPELLADO_100  100.00
## 7                          MOTOCICLISTA_100  100.00
## 8                               metro_300   99.79
## 9                         ACC_C_LESION_100   99.79
## 10                             ACC_FATAL_200   99.77
## 11                     traffic_signals_300   99.62
## 12                                     rtp   99.60
## 13                         ATROPELLADO_200   99.45
## 14                   VEH_DESBARRANCADO_200   99.41
## 15 PER_ATRAPADO_DESBARRANCADO_100   99.25
## 16                              restaurant   99.15
## 17                            nightclub_300   98.85
## 18                                 trolebus   97.66
## 19                        VEH_ATRAPADO_100   97.63
## 20                            VOLCADURA_100   97.58
## 21                        MOTOCICLISTA_200   97.48
## 22                           turning_circle   97.31
## 23                                OTROS_200   97.30
## 24                                 metrobus   96.98
## 25                        ACC_PRENSADO_200   94.66
## 26                               school_300   94.53
## 27                                  bar_300   94.36
## 28                    ATROPELLADO_FATAL_100   94.01
## 29                                hotel_300   93.84
## 30 PER_ATRAPADO_DESBARRANCADO_200   93.17
## 31                        VEH_ATRAPADO_200   92.36
## 32                        ACC_C_LESION_200   92.34
## 33                        ACC_PRENSADO_100   90.09
## 34                              supermarket   89.33
## 35                    ATROPELLADO_FATAL_200   88.81
```

```
## 36                     ACC_FATAL_100    88.46
## 37                     restaurant_300   87.31
## 38                       hospital_300   87.21
## 39                       crossing_300   86.85
## 40                          OTROS_100   85.29
## 41                             school   84.62
## 42                            rtp_300   81.83
## 43        VEH_DESBARRANCADO_100   81.01
## 44                               bank   75.57
## 45                           crossing   64.69
## 46                                bar   61.77
## 47                         attraction   55.30
## 48                              metro   54.29
## 49                              hotel   52.67
## 50                    VOLCADURA_200   51.90
## 51                             cetram   49.94
## 52               FERROVIARIO_200   42.28
## 53               FERROVIARIO_100    8.93
## 54                           hospital    7.70
## 55               speed_camera_300    6.34
## 56                             museum    1.63
## 57                             cinema    1.52
## 58                       kindergarten    0.05
## 59                          nightclub    0.02
## 60                            college    0.00
## 61                               mall    0.00
## 62                     mini_roundabout    0.00
## 63                               park    0.00
## 64                                pub    0.00
## 65                       speed_camera    0.00
## 66                            theatre    0.00
## 67                         university    0.00
```

Graficamos por division

```
importancia_splits <- C5imp(rules_100_C50, metric = "splits")
importancia_splits <- importancia_splits %>%
  rownames_to_column(var = "predictor")
importancia_splits
```

```
##                           predictor      Overall
```

```
## 1                   ACC_S_LESION_100 12.04514497
## 2                         interseccion 11.81163651
## 3                                  rtp  3.81397159
## 4                   ACC_S_LESION_200  3.28857754
## 5                       VOLCADURA_100  3.28857754
## 6                      ATROPELLADO_100  3.26911851
## 7                    ACC_C_LESION_100  3.05506908
## 8                      ATROPELLADO_200  2.72426542
## 9                    ACC_C_LESION_200  2.51021600
## 10                   MOTOCICLISTA_100  2.45183888
## 11 PER_ATRAPADO_DESBARRANCADO_100  2.45183888
## 12                   MOTOCICLISTA_200  2.29616657
## 13                 traffic_signals_300  2.17941234
## 14                       restaurant_300  2.10157618
## 15                            OTROS_200  2.06265810
## 16                       ACC_FATAL_200  2.00428099
## 17                              rtp_300  1.92644483
## 18                          school_300  1.92644483
## 19 PER_ATRAPADO_DESBARRANCADO_200  1.90698579
## 20                       VOLCADURA_200  1.75131349
## 21              ATROPELLADO_FATAL_100  1.71239541
## 22              ATROPELLADO_FATAL_200  1.65401829
## 23                              bar_300  1.45942790
## 24                           restaurant  1.45942790
## 25                         crossing_300  1.43996887
## 26          VEH_DESBARRANCADO_100  1.40105079
## 27                   ACC_PRENSADO_200  1.32321463
## 28                        hospital_300  1.32321463
## 29                            hotel_300  1.26483752
## 30                            metro_300  1.26483752
## 31                       ACC_FATAL_100  1.24537848
## 32                      traffic_signals  1.22591944
## 33                   VEH_ATRAPADO_100  1.18700136
## 34                   VEH_ATRAPADO_200  1.12862425
## 35          VEH_DESBARRANCADO_200  1.10916521
## 36                            OTROS_100  1.07024713
## 37                     cruce_peligroso  0.95349290
## 38                              trolebus  0.91457482
## 39                       turning_circle  0.91457482
## 40                               school  0.89511578
## 41                          supermarket  0.89511578
## 42                                 bank  0.75890251
```

```
## 43                      metrobus  0.75890251
## 44              ACC_PRENSADO_100  0.73944347
## 45                 nightclub_300  0.62268924
## 46                      crossing  0.52539405
## 47                           bar  0.46701693
## 48                         hotel  0.27242654
## 49                         metro  0.27242654
## 50              FERROVIARIO_100  0.17513135
## 51              FERROVIARIO_200  0.17513135
## 52                      hospital  0.13621327
## 53                    attraction  0.11675423
## 54                        cetram  0.07783615
## 55             speed_camera_300  0.07783615
## 56                  kindergarten  0.05837712
## 57                        cinema  0.01945904
## 58                        museum  0.01945904
## 59                     nightclub  0.01945904
## 60                       college  0.00000000
## 61                          mall  0.00000000
## 62               mini_roundabout  0.00000000
## 63                          park  0.00000000
## 64                           pub  0.00000000
## 65                  speed_camera  0.00000000
## 66                       theatre  0.00000000
## 67                    university  0.00000000
```