```
1  *--------------------------------------------------------------
   -*
2  User:                  u59406283
3  Date:                  11 April 2022
4  Time:                  22:20:22
5  *--------------------------------------------------------------
   -*
6  * Training Output
7  *--------------------------------------------------------------
   -*
8
9
10
11
12  Variable Summary
13
14            Measurement      Frequency
15  Role          Level          Count
16
17  ID        INTERVAL            1
18  INPUT     INTERVAL            2
19  INPUT     NOMINAL             3
20  TARGET    NOMINAL             1
21
22
23
24
25  Model Events
26
27                                           Number
28                         Measurement         of
29  Target     Event         Level          Levels      Order        La
    bel
30
31   Drug      DRUGY       NOMINAL             5       Descending
32
```

```
33
34
35
36  Predicted and decision variables
37
38  Type           Variable        Label
39
40  TARGET         Drug
41  PREDICTED      P_DrugdrugY     Predicted: Drug=drugY
42  RESIDUAL       R_DrugdrugY     Residual: Drug=drugY
43  PREDICTED      P_DrugdrugX     Predicted: Drug=drugX
44  RESIDUAL       R_DrugdrugX     Residual: Drug=drugX
45  PREDICTED      P_DrugdrugC     Predicted: Drug=drugC
46  RESIDUAL       R_DrugdrugC     Residual: Drug=drugC
47  PREDICTED      P_DrugdrugB     Predicted: Drug=drugB
48  RESIDUAL       R_DrugdrugB     Residual: Drug=drugB
49  PREDICTED      P_DrugdrugA     Predicted: Drug=drugA
50  RESIDUAL       R_DrugdrugA     Residual: Drug=drugA
51  FROM           F_Drug          From: Drug
52  INTO           I_Drug          Into: Drug
53
54
55  *------------------------------------------------------------
    -*
56  * Score Output
57  *------------------------------------------------------------
    -*
58
59
60  *------------------------------------------------------------
    -*
61  * Report Output
62  *------------------------------------------------------------
    -*
63
64
```

```
65
66 Variable Importance
67
68
```

Variable Name	Label	Number of Splitting Rules	Importance	Validation Importance	Ratio of Validation to Training Importance
Na_to_K		1	1.0000	1.0000	1.0000
BP		2	0.7530	0.7036	0.9344
Age		1	0.4985	0.5724	1.1482
Cholesterol		1	0.4816	0.5641	1.1713

```
77
78
79
80 Tree Leaf Report
81
```

Node Id	Depth	Training Observations	Training Percent DRUGY	Validation Observations	Validation Percent DRUGY
3	1	35	1	28	0.96
9	3	16	0	7	0.00

88	6	3	9	0	6
	0.00				
89	10	4	6	0	7
	0.00				
90	11	4	6	0	4
	0.00				
91	7	3	5	0	5
	0.00				

92

93

94

95

96 Fit Statistics

97

98 Target=Drug Target Label=' '

99

100   Fit
101 Statistics   Statistics Label   Train   Validation   Test

102

103 _NOBS_   Sum of Frequencies   77   57.000   66.000
104 _MISC_   Misclassification Rate   0   0.018   0.015
105 _MAX_   Maximum Absolute Error   0   1.000   1.000
106 _SSE_   Sum of Squared Errors   0   2.000   2.000
107 _ASE_   Average Squared Error   0   0.007   0.006
108 _RASE_   Root Average Squared Error   0   0.084   0.078
109 _DIV_   Divisor for ASE   385   285.000   330.000
110 _DFT_   Total Degrees of Freedom   308   .   .

```
111
112
113
114
115  Classification Table
116
117  Data Role=TRAIN Target Variable=Drug Target Label=' '
118
119                                      Target           Outcome        Frequency
            Total
120  Target      Outcome      Percentage      Percentage        Count
        Percentage
121
122  DRUGA       DRUGA           100             100               9
        11.6883
123  DRUGB       DRUGB           100             100               5
        6.4935
124  DRUGC       DRUGC           100             100               6
        7.7922
125  DRUGX       DRUGX           100             100               22
        28.5714
126  DRUGY       DRUGY           100             100               35
        45.4545
127
128
129  Data Role=VALIDATE Target Variable=Drug Target Label=' '
130
131                                      Target           Outcome        Frequency
            Total
132  Target      Outcome      Percentage      Percentage        Count
        Percentage
133
134  DRUGA       DRUGA         100.000         100.000             6
        10.5263
135  DRUGB       DRUGB         100.000         100.000             5
        8.7719
```

```
136 DRUGC        DRUGC         100.000       100.000            4
        7.0175
137 DRUGX        DRUGX         100.000        93.333           14
        24.5614
138 DRUGX        DRUGY           3.571         6.667            1
        1.7544
139 DRUGY        DRUGY          96.429       100.000           27
        47.3684
140
141
142
143
144 Event Classification Table
145
146 Data Role=TRAIN Target=Drug Target Label=' '
147
148    False          True          False          True
149 Negative       Negative       Positive       Positive
150
151     0             42              .             35
152
153
154 Data Role=VALIDATE Target=Drug Target Label=' '
155
156    False          True          False          True
157 Negative       Negative       Positive       Positive
158
159     0             29              1             27
160
161
162
163
164 Assessment Score Rankings
165
166 Data Role=TRAIN Target Variable=Drug Target Label=' '
167
```

168

Depth	Cumulative Gain	Lift	Mean Posterior Lift	% Response	Cumulative % Response	Number of Observations	Cumulative Posterior Probability
5	120.000	2.20000	2.20000	100	100.000	4	1
10	120.000	2.20000	2.20000	100	100.000	4	1
15	120.000	2.20000	2.20000	100	100.000	4	1
20	120.000	2.20000	2.20000	100	100.000	4	1
25	120.000	2.20000	2.20000	100	100.000	4	1
30	120.000	2.20000	2.20000	100	100.000	4	1
35	120.000	2.20000	2.20000	100	100.000	3	1
40	120.000	2.20000	2.20000	100	100.000	4	1
45	120.000	2.20000	2.20000	100	100.000	4	1
50	97.436	0.00000	1.97436	0	89.744	4	0
55	79.070	0.00000	1.79070	0	81.395	4	0
60	63.830	0.00000	1.63830	0	74.468	4	0
65	50.980	0.00000	1.50980	0	68.627	4	0
70	42.593	0.00000	1.42593	0	64.815	3	0
75	32.759	0.00000	1.32759	0			

```
      60.345            4                0
187   80      24.194   0.00000      1.24194             0
      56.452            4                0
188   85      16.667   0.00000      1.16667             0
      53.030            4                0
189   90      10.000   0.00000      1.10000             0
      50.000            4                0
190   95       4.054   0.00000      1.04054             0
      47.297            4                0
191  100       0.000   0.00000      1.00000             0
      45.455            3                0
192
193
194  Data Role=VALIDATE Target Variable=Drug Target Label=' '
195
196
                                            Mean
197                                      Cumulative        %        Cum
     ulative        Number of      Posterior
198  Depth        Gain      Lift        Lift        Response     % R
     esponse    Observations    Probability
199
200    5      103.571   2.03571     2.03571      96.4286         9
      6.4286            3            1.00000
201   10      103.571   2.03571     2.03571      96.4286         9
      6.4286            3            1.00000
202   15      103.571   2.03571     2.03571      96.4286         9
      6.4286            3            1.00000
203   20      103.571   2.03571     2.03571      96.4286         9
      6.4286            3            1.00000
204   25      103.571   2.03571     2.03571      96.4286         9
      6.4286            3            1.00000
205   30      103.571   2.03571     2.03571      96.4286         9
      6.4286            3            1.00000
206   35      103.571   2.03571     2.03571      96.4286         9
      6.4286            2            1.00000
```

207   40   103.571   2.03571   2.03571   96.4286   9
      6.4286   3   1.00000
208   45   103.571   2.03571   2.03571   96.4286   9
      6.4286   3   1.00000
209   50   96.552   1.35714   1.96552   64.2857   9
      3.1034   3   0.66667
210   55   78.125   0.00000   1.78125   0.0000   8
      4.3750   3   0.00000
211   60   62.857   0.00000   1.62857   0.0000   7
      7.1429   3   0.00000
212   65   50.000   0.00000   1.50000   0.0000   7
      1.0526   3   0.00000
213   70   42.500   0.00000   1.42500   0.0000   6
      7.5000   2   0.00000
214   75   32.558   0.00000   1.32558   0.0000   6
      2.7907   3   0.00000
215   80   23.913   0.00000   1.23913   0.0000   5
      8.6957   3   0.00000
216   85   16.327   0.00000   1.16327   0.0000   5
      5.1020   3   0.00000
217   90   9.615   0.00000   1.09615   0.0000   5
      1.9231   3   0.00000
218   95   3.636   0.00000   1.03636   0.0000   4
      9.0909   3   0.00000
219 100   0.000   0.00000   1.00000   0.0000   4
      7.3684   2   0.00000

220
221
222
223
224 Assessment Score Distribution
225
226 Data Role=TRAIN Target Variable=Drug Target Label=' '
227
228   Posterior   Number   Mean
229 Probability   of   Number of   Posterior

```
230     Range        Events    Nonevents    Probability    Percent
    age
231
232   0.95-1.00        35          0             1           45.45
    45
233   0.00-0.05         0         42             0           54.54
    55
234
235
236 Data Role=VALIDATE Target Variable=Drug Target Label=' '
237
238   Posterior      Number                          Mean
239 Probability        of       Number of        Posterior
240     Range        Events     Nonevents       Probability    Percent
    age
241
242   0.95-1.00        27          1             1           49.12
    28
243   0.00-0.05         0         29             0           50.87
    72
```