

```

1  *-----
   -*
2  User:                mpaul
3  Date:                April 27, 2022
4  Time:                22:39:32
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          BINARY        16
19 INPUT          INTERVAL      23
20 REJECTED       INTERVAL      1
21 TARGET         NOMINAL       1
22
23
24
25
26 Model Events
27
28                                     Number
29                               Measurement    of
30 Target      Event      Measurement    Levels    Ord
   er      Label
31
32 Attrition   NOT_ATTRITION    NOMINAL      2    Desce

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    nding
33
34
35
36
37 Predicted and decision variables
38
39 Type          Variable          Label
40
41 TARGET        Attrition
42 PREDICTED     P_AttritionNot_Attrition    Predicted: Attritio
    n=Not_Attrition
43 RESIDUAL      R_AttritionNot_Attrition    Residual: Attrition
    =Not_Attrition
44 PREDICTED     P_AttritionAttrition        Predicted: Attritio
    n=Attrition
45 RESIDUAL      R_AttritionAttrition        Residual: Attrition
    =Attrition
46 FROM          F_Attrition                From: Attrition
47 INTO          I_Attrition                Into: Attrition
48
49
50 *-----
    -*
51 * Score Output
52 *-----
    -*
53
54
55 *-----
    -*
56 * Report Output
57 *-----
    -*
58
59

```

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60
61 Variable Importance
62
63
64
65
66 Variable Name      Label      Rules      Importanc
    e      Importance      Importance
67
68 EducationField_Tech      1      1.000
    0      0.7403      0.7403
69 MonthlyIncome      1      0.913
    4      0.9712      1.0633
70 OverTime      1      0.892
    2      1.0000      1.1208
71 Department_Sales      1      0.630
    9      0.0000      0.0000
72 MaritalStatus_Single      1      0.584
    4      0.6689      1.1447
73
74
75
76 Tree Leaf Report
77
78
79 Node      Training      Percent      Validatio
    n      Percent
80 Id      Depth      Observations      NOT_ATTRITION      Observatio
    ns      NOT_ATTRITION
81
82 4      2      563      0.91      393
    0.91

```

83	19	4	124	0.90	67
		0.82			
84	3	1	77	0.53	55
		0.62			
85	10	3	57	0.44	36
		0.42			
86	25	5	38	0.79	25
		0.92			
87	24	5	22	0.36	13
		0.46			
88					
89					
90					
91					
92	Fit Statistics				
93					
94	Target=Attrition Target Label=' '				
95					
96	Fit				
97	Statistics	Statistics	Label	Train	Valid
98	ation				
99	_NOBS_	Sum of Frequencies		881.00	58
	9.00				
100	_MISC_	Misclassification Rate		0.16	
	0.16				
101	_MAX_	Maximum Absolute Error		0.91	
	0.91				
102	_SSE_	Sum of Squared Errors		200.37	14
	3.23				
103	_ASE_	Average Squared Error		0.11	
	0.12				
104	_RASE_	Root Average Squared Error		0.34	
	0.35				
105	_DIV_	Divisor for ASE		1762.00	117
	8.00				

106 _DFT_ Total Degrees of Freedom 881.00

107
108

109

110

111

112 Classification Table

113

114 Data Role=TRAIN Target Variable=Attrition Target Label=' '

115

	Frequency	Total	Target	Outcome
116	Target	Outcome	Percentage	Percentage
	Count	Percentage		

117

118	ATTRITION	ATTRITION	58.2278	30.4636
	46	5.2213		

119	NOT_ATTRITION	ATTRITION	41.7722	4.5205
	33	3.7457		

120	ATTRITION	NOT_ATTRITION	13.0923	69.5364
	105	11.9183		

121	NOT_ATTRITION	NOT_ATTRITION	86.9077	95.4795
	697	79.1146		

122

123

124 Data Role=VALIDATE Target Variable=Attrition Target Label=' '

125

	Frequency	Total	Target	Outcome
126	Target	Outcome	Percentage	Percentage
	Count	Percentage		

127

128	ATTRITION	ATTRITION	57.1429	28.0000
	28	4.7538		

129	NOT_ATTRITION	ATTRITION	42.8571	4.2945
-----	---------------	-----------	---------	--------

	21	3.5654		
131	ATTRITION	NOT_ATTRITION	13.3333	72.0000
	72	12.2241		
132	NOT_ATTRITION	NOT_ATTRITION	86.6667	95.7055
	468	79.4567		

133

134

135

136

137 Event Classification Table

138

139 Data Role=TRAIN Target=Attrition Target Label=' '

140

	False	True	False	True
142	Negative	Negative	Positive	Positive

143

144	33	46	105	697
-----	----	----	-----	-----

145

146

147 Data Role=VALIDATE Target=Attrition Target Label=' '

148

	False	True	False	True
150	Negative	Negative	Positive	Positive

151

152	21	28	72	468
-----	----	----	----	-----

153

154

155

156

157 Assessment Score Rankings

158

159 Data Role=TRAIN Target Variable=Attrition Target Label=' '

160

161

		Mean		
162		Cumulative	%	Cum

	ulative	Number of		Posterior		
163	Depth	Gain	Lift	Lift	Response	% R
	esponse	Observations		Probability		
164						
165	5	10.1813	1.10181	1.10181	91.2966	9
	1.2966	45		0.91297		
166	10	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
167	15	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
168	20	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
169	25	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
170	30	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
171	35	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
172	40	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
173	45	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
174	50	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
175	55	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
176	60	10.1813	1.10181	1.10181	91.2966	9
	1.2966	44		0.91297		
177	65	10.1608	1.09914	1.10161	91.0753	9
	1.2796	44		0.91075		
178	70	10.0784	1.09006	1.10078	90.3226	9
	1.2114	44		0.90323		
179	75	10.0070	1.09006	1.10007	90.3226	9
	1.1522	44		0.90323		
180	80	9.5940	1.03390	1.09594	85.6691	9
	0.8100	44		0.85669		

181	85	7.7591	0.78359	1.07759	64.9289	8
	9.2896	44		0.64929		
182	90	5.3456	0.64261	1.05346	53.2468	8
	7.2898	44		0.53247		
183	95	2.7121	0.55249	1.02712	45.7797	8
	5.1076	44		0.45780		
184	100	0.0000	0.48409	1.00000	40.1116	8
	2.8604	44		0.40112		

185

186

187 Data Role=VALIDATE Target Variable=Attrition Target Label='
,

188

189

190				Mean Cumulative	%	Cum
	ulative	Number of	Posterior			
191	Depth	Gain	Lift	Lift	Response	% R
	esponse	Observations	Probability			
192						
193	5	9.10983	1.09110	1.09110	90.5852	9
	0.5852	30		0.91297		
194	10	9.10983	1.09110	1.09110	90.5852	9
	0.5852	29		0.91297		
195	15	9.10983	1.09110	1.09110	90.5852	9
	0.5852	30		0.91297		
196	20	9.10983	1.09110	1.09110	90.5852	9
	0.5852	29		0.91297		
197	25	9.10983	1.09110	1.09110	90.5852	9
	0.5852	30		0.91297		
198	30	9.10983	1.09110	1.09110	90.5852	9
	0.5852	29		0.91297		
199	35	9.10983	1.09110	1.09110	90.5852	9
	0.5852	30		0.91297		
200	40	9.10983	1.09110	1.09110	90.5852	9
	0.5852	29		0.91297		

201	45	9.10983	1.09110	1.09110	90.5852	9
	0.5852	30		0.91297		
202	50	9.10983	1.09110	1.09110	90.5852	9
	0.5852	29		0.91297		
203	55	9.10983	1.09110	1.09110	90.5852	9
	0.5852	29		0.91297		
204	60	9.10983	1.09110	1.09110	90.5852	9
	0.5852	30		0.91297		
205	65	9.10983	1.09110	1.09110	90.5852	9
	0.5852	29		0.91297		
206	70	8.61428	1.02288	1.08614	84.9214	9
	0.1738	30		0.90647		
207	75	7.97540	0.98877	1.07975	82.0896	8
	9.6434	29		0.90323		
208	80	7.70058	1.03652	1.07701	86.0537	8
	9.4153	30		0.85772		
209	85	6.71979	0.90757	1.06720	75.3480	8
	8.6010	29		0.64768		
210	90	4.89720	0.74460	1.04897	61.8182	8
	7.0878	30		0.53247		
211	95	2.45411	0.57720	1.02454	47.9206	8
	5.0595	29		0.46773		
212	100	0.00000	0.52610	1.00000	43.6782	8
	3.0221	29		0.40499		

213

214

215

216

217 Assessment Score Distribution

218

219 Data Role=TRAIN Target Variable=Attrition Target Label=' '

220

221	Posterior	Number		Mean	
222	Probability	of	Number of	Posterior	
223	Range	Events	Nonevents	Probability	Percent
					age

224					
225	0.90-0.95	626	61	0.91121	77.97
	96				
226	0.75-0.80	30	8	0.78947	4.31
	33				
227	0.50-0.55	41	36	0.53247	8.74
	01				
228	0.40-0.45	25	32	0.43860	6.46
	99				
229	0.35-0.40	8	14	0.36364	2.49
	72				
230					
231					
232	Data Role=VALIDATE Target Variable=Attrition Target Label='				
	'				
233					
234	Posterior	Number		Mean	
235	Probability	of	Number of	Posterior	
236	Range	Events	Nonevents	Probability	Percent
	age				
237					
238	0.90-0.95	411	49	0.91155	78.09
	85				
239	0.75-0.80	23	2	0.78947	4.24
	45				
240	0.50-0.55	34	21	0.53247	9.33
	79				
241	0.40-0.45	15	21	0.43860	6.11
	21				
242	0.35-0.40	6	7	0.36364	2.20
	71				