

BSCCART

```
IF X[A2] < 34.5
THEN IF X[A5] < 10975.5
THEN 743(188) := Class 0: 188(0.25) Class 1: 555(0.75) VI: 743 - 1880 = -1,137
ELSE 8(0)      := Class 0: 8(1.00)   Class 1: (0.00)   VI: 8 - 0 = 8
ELSE IF X[A13] < 26.5
THEN 31(7)     := Class 0: 24(0.77)  Class 1: 7(0.23)   VI: 31 - 70 = -39
ELSE 118(50)   := Class 0: 50(0.42)  Class 1: 68(0.58)  VI 118 - 500 = -382
```

Optimal Pattern

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IF X[A2] < 9.00
THEN IF X[A5] < 3384.00
THEN 72(4)     := Class 0: 4(0.06)   Class 1: 68(0.94)   VI: 72 - 40 = 32
ELSE 9(4)      := Class 0: 4(0.44)   Class 1: 5(0.56)   VI: 9 - 40 = -31
ELSE IF X[A5] < 11816.00
THEN 800(248) := Class 0: 248(0.31)  Class 1: 552(0.69) VI: 800 - 2480 = -1,680
ELSE 19(5)     := Class 0: 14(0.74)  Class 1: 5(0.26)   VI: 19 - 50 = -31
```

Optimal Pattern Detection Tree (OPDT)

	Nodes		Objective	IInf	Best Integer	Cuts/		ItCnt	Gap
	Node	Left				Best Bound			
*	0+	0			8.0000	900.0000			---
	0	0	900.0000	34	8.0000	900.0000	17		---
	0	0	900.0000	3	8.0000	Cuts: 6	23		---
	0	0	900.0000	542	8.0000	Cuts: 279	3976		---
	0	0	899.0000	784	8.0000	Cuts: 635	4833		---
	0	0	899.0000	990	8.0000	Cuts: 1185	5060		---
Detecting symmetries...									
	0	2	899.0000	179	8.0000	899.0000	5060		---
Elapsed time = 2.97 sec. (5624.59 ticks, tree = 0.02 MB, solutions = 1)									
	12	14	899.0000	748	8.0000	899.0000	6257		---
	26	26	899.0000	1081	8.0000	899.0000	8039		---
	105	81	899.0000	158	8.0000	899.0000	14584		---
	164	120	899.0000	1191	8.0000	899.0000	22293		---
	200	137	899.0000	115	8.0000	899.0000	34376		---
	241	170	899.0000	74	8.0000	899.0000	40932		---
	268	197	120.0000	564	8.0000	899.0000	51930		---
	295	211	899.0000	28	8.0000	899.0000	58838		---
	337	232	11.5197	60	8.0000	899.0000	61766		---
	389	271	infeasible		8.0000	899.0000	110911		---
Elapsed time = 4.99 sec. (8751.74 ticks, tree = 0.96 MB, solutions = 1)									
	409	266	899.0000	571	8.0000	899.0000	125240		---
	425	268	899.0000	846	8.0000	899.0000	142524		---
	766	412	899.0000	880	8.0000	899.0000	173535		---
*	913+	378			9.0000	899.0000			---
	1186	448	244.3839	426	9.0000	899.0000	184793		---
	1679	663	175.8439	814	9.0000	899.0000	229554		---
	2083	770	899.0000	115	9.0000	899.0000	265576		---
*	2087+	304			19.0000	899.0000			---
	2163	779	32.4802	655	19.0000	899.0000	295159		---
	2433	776	144.5734	516	19.0000	899.0000	309651		---
*	2784+	881			32.0000	899.0000			---
	2794	852	464.8061	994	32.0000	899.0000	383976		---
	3252	943	401.5965	956	32.0000	899.0000	415834		---
Elapsed time = 12.67 sec. (18396.60 ticks, tree = 3.36 MB, solutions = 5)									
	3564	978	899.0000	1370	32.0000	899.0000	427728		---
	3691	974	49.0437	185	32.0000	899.0000	454519		---
	3977	1037	81.2183	643	32.0000	899.0000	475631		---
	4199	1054	419.5000	754	32.0000	899.0000	505513		---