

Problem 4: Active Customers

Consider the following data set, in which we have 5 attributes: gender, loss of signals, tariff class, age, handset, and the subject, active can be either yes or no. Based on the following instances, construct rules by using PRISM method.

No	Gender	Loss of Signal (months)	Tariff Class	Age	Handset	Active
1	M	9.733333	CAT 200	25	ASAD170	Yes
2	M	9.733333	CAT 100	36	S50	Yes
3	M	9.833333	CAT 200	18	ASAD170	Yes
4	M	9.966667	CAT 200	45	ASAD170	Yes
5	M	10.3	CAT 200		S50	Yes
6	M	10.63333	CAT 100	20	BS110	Yes
7	M	10.73333	CAT 100	38	S50	Yes
8	M	10.83333	CAT 100	23	ASAD90	Yes
9	M	10.9	CAT 100		S50	Yes
10	M	10.966667	CAT 200	18	ASAD170	Yes
11	M	11.066667	CAT 200	23	ASAD170	Yes
12	M	11.3	CAT 200	22	ASAD170	Yes
13	M	11.8	CAT 200		ASAD170	Yes
14	F	9.833333	CAT 100	16	BS110	Yes
15	F	10.06667	CAT 100	23	WC95	Yes
16	F	10.2	Play 300	69	S50	Yes
17	F	10.7	Play 100	35	S80	Yes
18	F	10.8	CAT 200	20	ASAD170	Yes
19	F	11.166667	CAT 100	30	WC95	Yes
20	F	11.533333	Play 100	14	BS210	Yes
21	F	11.7	CAT 200		ASAD170	Yes
22	F	11.766667	CAT 200	33	S50	Yes
23	F	11.8	CAT 050	47	BS110	Yes
24	M	9.666667	CAT 200	15	S50	No
25	M	9.733333	CAT 200	12	S50	No
26	M	9.733333	CAT 100	32		No
27	M	9.8	Play 100	46	BS110	No
28	M	10	CAT 200	21	S50	No
29	M	10.23333	CAT 200	53		No
30	M	10.46667	Play 100	14	S50	No
31	M	10.933333	CAT 100		CAS30	No
32	M	11.5	CAT 100	24	S50	No
33	M	11.566667	Play 300	19	S50	No
34	M	11.916667	CAT 100	21	CAS30	No

35	F	9.733333	CAT 200	34	ASAD90	No
36	F	10.16667	CAT 200	51	ASAD90	No
37	F	10.46667	CAT 200	24	ASAD90	No
38	F	10.83333	Play 100	62	BS110	No
39	F	11.16667	Play 100	24	S50	No
40	F	11.23333	Play 100	15	BS210	No
41	F	11.26667	CAT 200	52	CAS30	No
42	F	11.4	CAT 100		ASAD90	No
43	F	11.43333	Play 100	27		No
44	F	11.43333	Play 100	34	S50	No
45	F	11.46667	CAT 200	14		No
46	F	11.5	CAT 200	16	CAS30	No
47	F	11.56667	CAT 200		S50	No
48	F	11.66667	CAT 050	20	CAS30	No
49	F	11.76667	CAT 200	17	ASAD90	No
50	F	11.76667	CAT 050	28	CAS30	No