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MODUL 11

INDUKSI DAN ATURAN ASOSIASI

TUGAS.

Dengan menggunakan data Lama Studi pada Tugas Modul 6 Soal No.1 carilah RuleModel dan Nilai Performance Vector.

1. Rule Model

RuleModel

```
if rerata_sks > 18.500 then TEPAT  (2 / 10)
if gender = PRIA then TERLAMBAT  (4 / 0)
if jurusan_sma = IPA then TEPAT  (0 / 2)
if jurusan_sma = IPS then TERLAMBAT  (1 / 0)
else TEPAT  (0 / 0)

correct: 17 out of 19 training examples.
```

2. Performance Vector

accuracy: 65.00% +/- 32.02% (micro average: 65.00%)

	true TERLAMBAT	true TEPAT	class precision
pred. TERLAMBAT	4	4	50.00%
pred. TEPAT	3	9	75.00%
class recall	57.14%	69.23%	

Masih dengan menggunakan data training yang sama, dengan ketentuan bahwa pada operator Discretize by Frequency memiliki nilai :

a) number of bins = 2

a. FP-Growth (Table View). Gambarkan tabelnya

No. of Sets: 13
Total Max. Size: 2

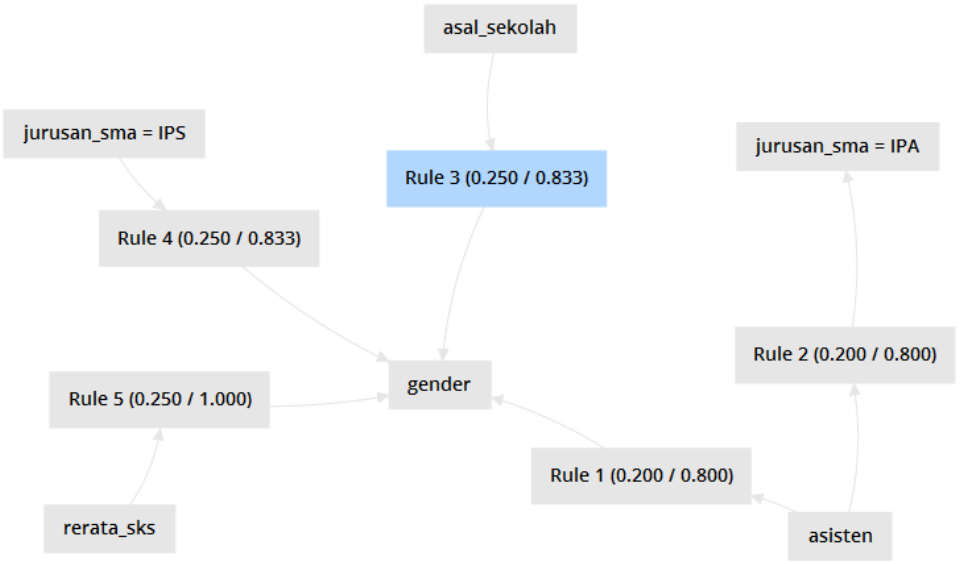
Min. Size: 1
Max. Size: 2
Contains Item:
Update View

Size	Support	Item 1	Item 2
1	0.750	gender	
1	0.500	jurusan_sma = IPA	
1	0.300	asal_sekolah	
1	0.300	jurusan_sma = IPS	
1	0.250	asisten	
1	0.250	rerata_sks	
1	0.200	jurusan_sma = LAIN	
2	0.350	gender	jurusan_sma = IPA
2	0.250	gender	asal_sekolah
2	0.250	gender	jurusan_sma = IPS
2	0.200	gender	asisten
2	0.250	gender	rerata_sks
2	0.200	jurusan_sma = IPA	asisten

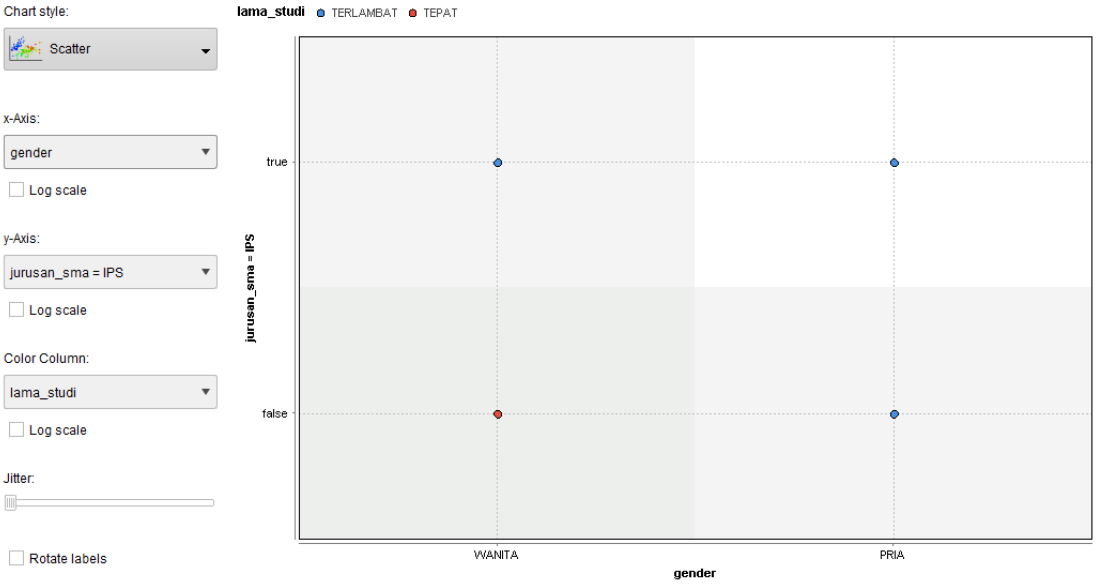
b. Association Rules

No.	Premises	Conclusion	Support	Confid
3	asal_sekolah	gender	0.250	0.833
4	jurusan_sma = IPS	gender	0.250	0.833
5	rerata_sks	gender	0.250	1

Confidence	LaPlace	Gain	p-s	Lift	Convicti...
0.833	0.962	-0.350	0.025	1.111	1.500
0.833	0.962	-0.350	0.025	1.111	1.500
1	1	-0.250	0.062	1.333	∞



c. ExampleSet



b) number of bins = *gunakan nilai yang lain* SAYA MENGGUNAKAN NUMBER OF BINS = 3

a. FP-Growth (Table View). Gambarkan tabelnya

No. of Sets: 19
Total Max. Size: 2

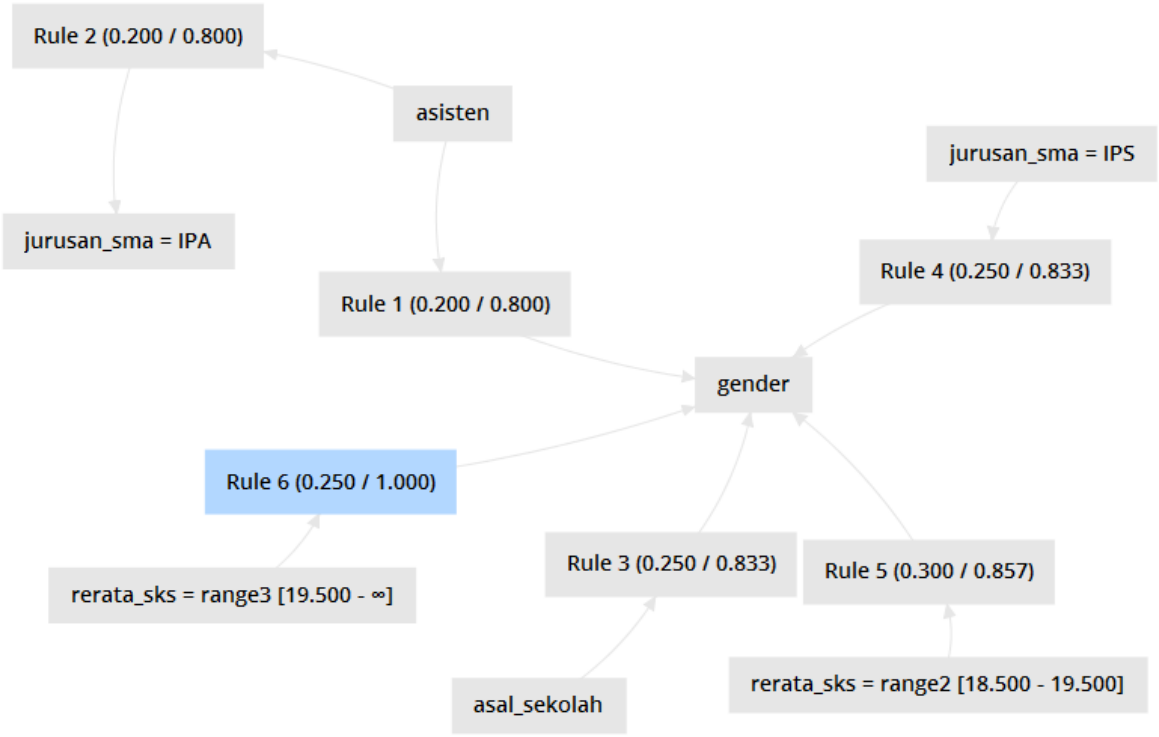
Min. Size: 1
Max. Size: 2
Contains Item:
Update View

Size	Support	Item 1	Item 2
1	0.750	gender	
1	0.500	jurusan_sma = IPA	
1	0.400	rerata_sks = range1 [-∞ - 18.500]	
1	0.350	rerata_sks = range2 [18.500 - 19.5...	
1	0.300	asal_sekolah	
1	0.300	jurusan_sma = IPS	
1	0.250	asisten	
1	0.250	rerata_sks = range3 [19.500 - ∞]	
1	0.200	jurusan_sma = LAIN	
2	0.350	gender	jurusan_sma = IPA
2	0.200	gender	rerata_sks = range1 [-∞ - 18.500]
2	0.300	gender	rerata_sks = range2 [18.500 - 19.5...
2	0.250	gender	asal_sekolah
2	0.250	gender	jurusan_sma = IPS
2	0.200	gender	asisten
2	0.250	gender	rerata_sks = range3 [19.500 - ∞]
2	0.250	gender	jurusan_sma = IPS
2	0.200	gender	asisten
2	0.250	gender	rerata_sks = range3 [19.500 - ∞]
2	0.200	jurusan_sma = IPA	rerata_sks = range1 [-∞ - 18.500]
2	0.200	jurusan_sma = IPA	rerata_sks = range2 [18.500 - 19.5...
2	0.200	jurusan_sma = IPA	asisten

b. Association Rules

No.	Premises	Conclusion
3	asal_sekolah	gender
4	jurusan_sma = IPS	gender
5	rerata_sks = range2 [18.500 - 19.500]	gender
6	rerata_sks = range3 [19.500 - ∞]	gender

Support	Confidence	LaPlace	Gain	p-s	Lift	Convicti...
0.250	0.833	0.962	-0.350	0.025	1.111	1.500
0.250	0.833	0.962	-0.350	0.025	1.111	1.500
0.300	0.857	0.963	-0.400	0.038	1.143	1.750
0.250	1	1	-0.250	0.062	1.333	∞



c. ExampleSet