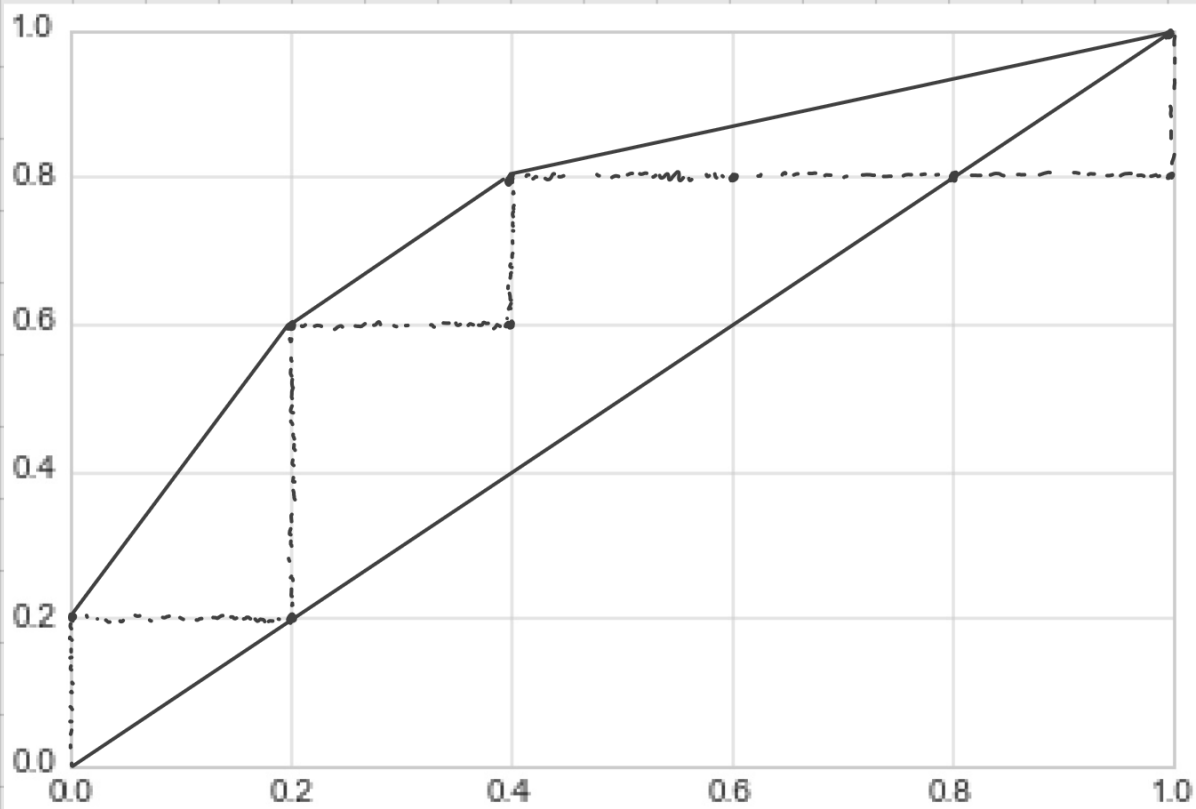


①

Tuple	#	Class Prob	TP	FN	FP	TN	TPR	FPR
1	p	0.95	1	4	0	5	0.2	0
2	n	0.85	1	4	1	4	0.2	0.2
3	p	0.78	2	3	1	4	0.4	0.2
4	p	0.66	3	2	1	4	0.6	0.2
5	n	0.6	3	2	2	3	0.6	0.4
6	p	0.55	4	1	2	3	0.8	0.4
7	n	0.53	4	1	3	2	0.8	0.6
8	n	0.52	4	1	4	1	0.8	0.8
9	n	0.51	4	1	5	0	0.8	1.0
10	p	0.4	5	0	5	0	1.0	1.0



②

TID	Basket
T1	A, B, E
T2	B, D
T3	B, C
T4	A, B, D
T5	A, C
T6	B, C
T7	A, C
T8	A, B, C, E
T9	A, B, C

$$a) \{A, B\} \Rightarrow E = \frac{2}{4} = 0.5$$

$$b) A \Rightarrow \{B, E\} = \frac{2}{6} = 0.33$$

③

Itemset	Sup
{A}	6
{B}	7
{C}	6
{D}	2
{E}	2

Itemset	Sup
A, B	4
A, C	4
<del>A, D</del>	<del>1</del>
A, E	2
B, C	3
B, D	2
B, E	2
<del>C, D</del>	<del>0</del>
<del>C, E</del>	<del>1</del>
<del>D, E</del>	<del>0</del>

Itemset	Sup
{A, B}	4
{A, C}	4
{A, E}	2
{B, C}	3
{B, D}	2
{B, E}	2

Itemset	Sup
{A, B, C}	2
{A, B, E}	2
{B, C, E}	1
{A, B, D}	1

Itemset	Sup
{A, B, C}	2
{A, B, E}	2

(4)

Item:

Freq:

head:

B

7

A

6

C

6

D

2

E

2

