

Sagalee 42

i	1	2	3	4	5	6	7	8	9
p(i)	0	0	0	0	0	0	0	1	1
g(x(i))	0,75	0,75	0,11	0,23	0,09	0,10	0,66	0,82	0,5

conf matrix

		True Class	
		1	0
1	3 TP	1 FP	
0	1 FN	4 TN	

$$FPR = \frac{FP}{TN + FP} = \frac{1}{4 + 1} = \frac{1}{5}$$

$$FNR = \frac{FN}{FN + TP} = \frac{1}{1 + 3} = \frac{1}{4}$$

$$TNR = \frac{TN}{N} = \frac{4}{5}$$

$$TPR = 1 - FNR = \frac{3}{4}$$

$$PPV = \frac{TP}{FP + TP} = \frac{3}{4}$$

$$\text{accuracy} = \frac{TP + TN}{P + N} = \frac{7}{9}$$

$$\text{error} = 1 - \text{acc} = \frac{2}{9}$$

$$F1 = \frac{2 \cdot PPV \cdot TPR}{PPV + TPR} = \frac{3}{4}$$

$$AUC = 0,2 \cdot 0,25 + 0,6 \cdot 0,75 + 0,2 = 0,05 + 0,45 + 0,2 = 0,7$$

