

Dataset S

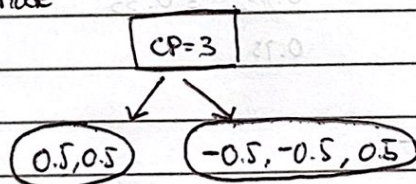
CP	thalac	target	residual
3	150	1	0.5
3	190	1	0.5
0	96	0	-0.5
1	174	0	-0.5
1	202	1	0.5

0.5, 0.5, -0.5, -0.5, 0.5

$$\begin{aligned} \text{similarity} &= \frac{0.5 + 0.5 - 0.5 - 0.5 + 0.5}{(0.5 \times (1 - 0.5)) \times 5} \\ &= \frac{(0.5)^2}{0.25 \times 5} = \frac{0.25}{1.25} = 0.2 \end{aligned}$$

$$\text{root similarity} = \frac{0.5}{1} = 0.2$$

kemungkinan node



Left S

$$\begin{aligned} &= \frac{(0.5 + 0.5)^2}{(0.5 \times (1 - 0.5)) \times 2} \\ &= \frac{1}{0.25 \times 2} = \frac{1}{0.5} \end{aligned}$$

+ 2

$$\begin{aligned} \text{Gain} &= 2 + 0.33 - 0.24 \\ &= 2.13 \end{aligned}$$

$$\begin{aligned} \text{Right S} &= \frac{(-0.5 - 0.5 + 0.5)^2}{(0.5 \times (1 - 0.5)) \times 3} \\ &= \frac{0.25}{0.75} = 0.33 \end{aligned}$$



(2)

CP=0

-0.5

0.5, 0.5, -0.5, 0.5

Left S =

Right S =

$$= \frac{(-0.5)^2}{(0.5 \times (1-0.5))} = \frac{0.25}{0.25}$$

= 1

$$= \frac{(0.5 + 0.5 - 0.5 + 0.5)^2}{(0.5 \times (1-0.5)) \times 4}$$

= 1

$$\text{Gain} = 1 + 1 - 0.2$$

$$= 1.8$$

(3)

CP=1

-0.5, 0.5

0.5, 0.5, -0.5

Left S = 0

Right S =

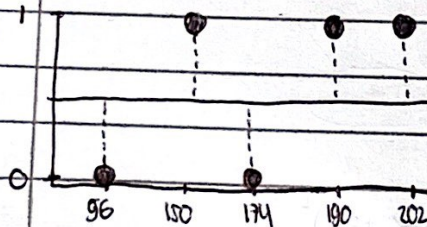
$$\text{Gain} = 0 + 0.75 - 0.2$$

$$= 0.55$$

$$= \frac{(0.5 + 0.5 - 0.5)^2}{(0.5 \times (1-0.5)) \times 3}$$

$$= \frac{0.25}{0.75} = 0.33$$

0.75



(4)

thalac &lt; 123

-0.5

0.5, -0.5, 0.5, 0.5

$$\text{Left S} = \frac{(-0.5)^2}{(0.5 \times (1-0.5))}$$

$$\text{Right S} = \frac{(0.5 - 0.5 + 0.5 + 0.5)^2}{(0.5 \times (1-0.5)) \times 4}$$

$$\text{Gain} = 1 + 1 - 0.2$$

$$= \frac{0.25}{0.25}$$

$$= 1$$

$$= \frac{1}{1}$$

$$= 1$$

$$= 1.8$$



(5)

Thalac &lt; 163

-0.5, 0.5

-0.5, 0.5, 0.5

$$\text{Left } S = 0 \quad \text{Right } S = (-0.5 + 0.5 + 0.5)^2 \quad \text{Gain} = 0 + 0.33 - 0.2$$

$$(0.5 \times (1 - 0.5)) \times 3 = 0.13$$

$$= 0.25$$

$$0.75$$

$$= 0.33$$

(6)

Thalac &lt; 182

-0.5, 0.5, -0.5

0.5, 0.5

$$\text{Left } S = (-0.5 + 0.5 - 0.5)^2 \quad \text{Right } S = (0.5 + 0.5)^2 \quad \text{Gain} = 0.33 + 2 - 0.2$$

$$(0.5 \times (1 - 0.5)) \times 3$$

$$(0.5 \times (1 - 0.5)) \times 2$$

$$= 2.13$$

$$= 0.25$$

$$= \frac{1}{0.5}$$

$$0.5$$

$$= 0.33$$

$$= 2$$

(3)

Thalac &lt; 196

-0.5, 0.5, -0.5, 0.5

0.5

$$\text{Left } S = 0 \quad \text{Right } S = (0.5)^2 \quad \text{Gain} = 0 + 1 - 0.2$$

$$= (0.5)^2$$

$$= 0.8$$

$$(0.5 \times (1 - 0.5))$$

$$= 0.25$$

$$0.25$$

$$(0.5 - 1) \times 0.5 = 1$$

$$(0.5 - 1) \times 0.5 = 1$$



level selanjutnya (keselamatan berikutnya)

①

CP=0

-0.5

-0.5, 0.5

$$\text{Gain} = 0 + 0 - 0.33$$

$$= 0.67$$

$$\text{Left S} = (-0.5)^2$$

$$\text{Right S} = 0$$

$$(0.5 \times (1-0.5))$$

$$= \frac{0.25}{0.25} = 1$$

$$= 1$$

②

CP=1

-0.5, 0.5

-0.5

$$\text{Left S} = (-0.5 + 0.5)^2$$

$$\text{Right S} = (-0.5)^2$$

$$\text{Gain} = 0 + 1 - 0.33$$

$$(0.5 \times (1-0.5)) \times 2$$

$$(0.5 \times (1-0.5))$$

$$= 0.67$$

$$= 0$$

$$= \frac{0.25}{0.15}$$

$$= 1$$

③

Thalac < 135

-0.5

-0.5, 0.5

$$\text{Left S} = (-0.5)^2$$

$$\text{Right S} = (-0.5 + 0.5)^2$$

$$\text{Gain} = 1 + 0 - 0.33$$

$$(0.5 \times (1-0.5))$$

$$(0.5 \times (1-0.5)) \times 2$$

$$= 0.67$$

$$= \frac{0.25}{0.25}$$

$$= 0$$

$$= 1$$

④

Thalac < 180

$$\text{Left S} = (-0.5 - 0.5)^2$$

$$\text{Right S} = (0.5)^2$$

$$\text{Gain} = 2 + 1 - 0.33$$

$$(0.5 \times (1-0.5)) \times 2$$

$$(0.5 \times (1-0.5))$$

$$= 2.67$$

-0.5, -0.5

0.5

$$= \frac{1}{0.5}$$

$$= \frac{0.25}{0.25}$$

$$= 2$$

$$= 1$$



level selanjutnya (kedalaman selanjutnya)

①

CP=0

-0.5

-0.5

Left S:  $(-0.5)^2$ Right S:  $(-0.5)^2$ Gain:  $(1+1)-2$  $0.5 \times (1-0.5)$  $(0.5 \times (1-0.5)) - 1/2 = 0$  $= \frac{0.25}{0.25}$  $= \frac{0.25}{0.25}$  $= 1$  $= 1$ 

②

CP=1

-0.5

-0.5

Left S:  $(-0.5)^2$ 

Right S: 1

Gain: 0

 $(0.5 \times (1-0.5))$  $= 1$ 

③

Thalac &lt; 135

-0.5

-0.5

Left S: 1 Right S: 1 Gain: 0

Pohon yg dibuat

CP=3

Thalac &lt; 170

Thalac &lt; 188

0.5

0.5

2

2

CP=0

0.5

-0.5

-0.5

-2

-2



☐

Menghitung Output Value

☐

1.

$$0.5$$

3)

$$0.5$$

$$= 2$$

☐

$$(0.5 \times (0.05))$$

$$(0.5 \times (1 - 0.05))$$

☐

$$= \frac{0.5}{0.25} = 2$$

☐

$$0.25$$

4)

$$= 0.5$$

☐

2.

$$0.5$$

$$(0.5 \times (1 - 0.05))$$

☐

$$(0.5 \times (1 - 0.05))$$

$$= \frac{0.5}{0.25} = 2$$

☐

$$= \frac{0.5}{0.25} = 2$$

☐

$$0.25$$

☐

CP	Thalac	Target	Prob-Probability	residual
3	150	1	0.65	0.35
3	190	1	0.65	0.35
6	96	0	0.35	-0.35
1	174	0	0.35	-0.35
1	202	1	0.65	0.35

☐

1.

$$0 + (0.3 \times 2) = 0.6$$

4)

$$0 + (0.3 \times -2) = -0.6$$

☐

$$\text{Probability} = \frac{e^{0.6}}{1 + e^{0.6}} = \frac{1.822}{1 + 1.822}$$

$$= \frac{e^{-0.6}}{1 + e^{-0.6}}$$

☐

$$1 + e^{0.6}$$

$$1 + e^{-0.6}$$

☐

$$= 0.69$$

$$= 0.35$$

☐
☐

2.

$$0 + (0.3 \times 2) = 0.6$$

5)

$$0 + (0.3 \times 2) = 0.6$$

☐

$$= \frac{e^{0.6}}{1 + e^{0.6}} = 0.65$$

$$= \frac{e^{0.6}}{1 + e^{0.6}}$$

☐

$$1 + e^{0.6}$$

$$1 + e^{0.6}$$

☐

$$= 0.65$$

☐

3.

$$0 + (0.3 \times -2) = -0.6$$

☐

$$= \frac{e^{-0.6}}{1 + e^{-0.6}}$$

☐

$$1 + e^{-0.6}$$

☐

$$= \frac{0.549}{1.549} = 0.35$$

☐

$$1.549$$



No. Minggy

Date: 9 april 2021

☐

Buat Rohon baru berdasarkan residual baru

☐

~~Root~~  $(0.35, 0.35, -0.35, -0.35, 0.35)$

☐

Root similarity :  $(0.35 + 0.35 - 0.35 - 0.35 + 0.35)^2$

☐

$$(0.65 \times (1 - 0.65)) \times 3 + (0.35 \times (1 - 0.35)) \times 2$$

☐

$$= (0.35)^2$$

☐

$$0.68 + 0.45$$

☐

$$= \frac{0.1225}{1.13} = 0.1$$

☐

$$1.13$$

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