



Given: 120.05 1220.10

W120.15, W2=0-20, W3=0-25, W420-30, 6 = 0.3

W5=0.4, W6=0.45, W4=0.5, Wg=0-58 - 62=0-6

01=0.61,02=0.99

heth, = 0-15 * 0-05 + 0-2 * 0-1 + 0.35 * 1 = 0-3 +75

Out
$$h_1 = \frac{1}{1 + e^{-n\psi h_1}} = \frac{1}{1 + e^{-0.3745}} = \frac{1}{1 + 0.6856} = \frac{1.6856}{1.6856} = 0.5932$$

now,

$$= \omega_{4} + \frac{12}{12} + \frac{3}{12}$$

$$= 0.3 \times 0.1 + 0.25 \times 0.05 + 0.35 \times 1 = 0.3925$$

$$0 \text{ at } h_2 = \frac{1}{1 + e^{-net}h_2} = \frac{1}{1 + e^{-0.3925}} = \frac{1}{1 + o.6754} = \frac{1}{1.6754} = \frac{20.59688}{1.6754}$$

$$net o_2 = w \neq *outh, + w_8 *outh_2 + b_2 *1$$

$$= 0.5 \times 0.5932 + 0.55 *0.5968 + 1 *0.6$$

$$net o_2 = 1.22484$$

$$Out o_2 = \frac{1}{1 + \bar{e}^{net}o_2} = \frac{1}{1 + \bar{e}^{1.22484}} = \frac{1}{1 + 0.2938} = 0.1729$$

$$Eo_2 = \frac{1}{2} (farget o_2 - out o_2)^2$$

$$= \frac{1}{2} (o.99 - o.1729)^2$$

$$= \frac{1}{2} (o.ou7132ui)$$

$$Eo_2 = o.o2356$$

Etotal = E0, + E02 = 0.27481+0.02356 = 0.29837

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