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DL- Assignment Civer: W, = -1.7 (X2) 102=01 (Ws = -0.2 (3)->(52)-(h2) ) wy= -1.8 (50) = 1  $1 + e^{-30}; h_1 = 1$   $1 + e^{-3(1\omega_1 - 3)(2\omega_2)}$ [5(1,3(2,3(2,3(4))] = [0.7,1.2,1.1,2]; y=0.5]  $L_2 = [1] \hat{g} - y[1]^2$ ,  $\delta L_1 = 2[1] \hat{g} - y[1]$ Composing: = (0.7)(-1.7) + (1.2)(0.1)2 -1:19 +0:12= -1.07  $S_2 = 2 (3 M_3 + 2 (4 M_4) + (-1.8)(2)$ S2 = -4.26/ also h1 = 1+p-2(1W1-2(2W2 1+e-(0.7)(-1.7) - (1.2)(0.1)

PAGE NO DATE: / 201 P(1.19)(-0.12) = 1+0.0669 1 = 1 = 1 = +1.07 h2 = 0.0139 also Sz= h, Ws + h2 W6  $S_{3} = \frac{(0.2554)(-0.8) + (0.0139)(0.5)}{(52 = -0.04413)}$  $\hat{y} = \frac{1}{1 + e^{-S_3}} = \frac{1}{1 + e^{0.04413}}$ Mow using Back propagation

DE = DE × Og × dez × Ohi × dsi

Swi Sg Ss Shi Ss Du gian
SE - 2113-911 ... @ also wi know:- $\frac{\sigma'(bc)}{\delta s_1} = \frac{\sigma(bc)}{\delta s_1} = \frac{\sigma(bc)}{\delta s_1} = \frac{\sigma(bc)}{\delta s_2} = \frac{\sigma(bc)}{\delta s_1} = \frac{\sigma(bc)}{\delta s_2} = \frac{\sigma(bc)}{$ 

Using @ 8 b , 6 EE = 2119-411 x o (S3) x w5 x o (\$1) \* >11 - $= 2 \left[ \frac{1 \cdot 25 \cdot 1 - 0 \cdot 511}{1 \cdot 25 \cdot 1 - 0 \cdot 511} \times \sigma(s_3) \left( 1 - \sigma(s_3) \right) \times \left( -0.2 \right) \times \sigma(s_1) \left[ 1 - \sigma(s_1) \right] \times \left( 0.7 \right).$ 0.4884 1+6-23 1+6-0.00413 0(S1) = 1 - 0.2554 = 2 x 0.754 x 0.2554 [1-0.2554] X-0.2 X 0.4889[1-0.4889] X 0.7 DE = - 4.476