Assumption Network X1=1 W1=0-2 B1=0.5 W2=0.4 (XI) WI W2 (V) B2 = 0.8 Actualoutput = 1 (B) (B2) 1 = 0.5 Activation = \_ function Ite-x forward pass  $H_1 = X_1 \omega_1 + B_1$   $H_1 out = 1 = 0.6681$ = 0.2 + 0.5 = 0.7 Y1 = H1W2+B2 Outy = 1 = 20.744 = 0.6681 (0.4) + 0.8 1+e-1.06724 = 1.06724 Total error = ( CActualoutput - Outy, ) 2 = 1 (1-0.744) 2 0-03276 Backward pass (updating weights) Wzup = W2 - 1 ( atotalerror) aus atotalerror = atotalerror. douty. . Du g outy dy dus dtotalerror = -(1-0.744) ∂w2 = -0.256 - D douty! = y(1-y.) = 1.067 (1-01.067) = -0.0717 -0

2W2 Wandate = 0.4 - 0.5 (-0.256 x (-0.0717) x 0.668) 0-3938 wrupdate weight is 0.3938 - un update = atotal w, - n (atotalerror 2001 abotalerror = atotalerror . Douthi . OHI 100 14.00 HTOO 1001 abtalerror - atotalerror . Bouty, douty, douty, D'aut H -0.0256X 0.6681 -0.0171 gom+1 = - (1-0.9881) DHI = 0.2 Dwi wjupdate = (0.2) - 0.5 ((-0.0171)x(-0.389) x 0.2

= 0.1994

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	Wi update weight is 0-1994
	W1 = 0-2 W1 up = 0-1994
	W2 = 0.4 W2 up = 0.3938
	Hart Balter
0	