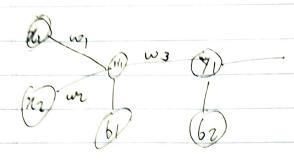
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To codealate Hidden Luyu: -H= n, w, + n2w2+ b,

and actuation tunction is sigmoid :-

Lets usume the fallowing.

n:=0.05 61=0.40 / Torget T1=0.99

nz=0.10 62=0.60

Initial weights: - w1= 0.10, wz=0.20, wz=0.30

Favord Step: -

M1 = n/w, + nzwz+b1 = 0.05 x0-1 + 0.1 x 0.2 + 0.4 = 0.425

aut $M_1 = \frac{1}{1+e^{-1}} = \frac{0.60467}{1+e^{-0.425}}$

11 = out 11 w3 + 62 = 0.6 *667 x 0.3 + 0.6

1 1= 0.73140

$$ent y_1 = \frac{1}{1 + e^{-V_1}} = \frac{1}{1 + e^{-0.78140}} = 0.6884.$$

(alufuting total error:

$$\frac{E_{704d}}{2} = \frac{1}{2} (M - 0 dH_{1})^{2}$$

$$= \frac{1}{2} (10.49 - 0.68)^{2} = 0.048$$

Bullword Pass:-

2 Explot - DETOPUL X DOUTY 1 X DY,

2 ws 2 outy, 2, 2 ws

Havever,
$$\frac{1}{2}$$
 = $\frac{2 \times 1}{7} (1 - 0 wf y_1) \times -1 = 0.31$

Updating wz W3 = W3 - 1 JETOHA = 0.30-6.5(-6.040) Similarly lots calculate error at we and we and replace. DETOTAL = DETOTAL & DOV/H, - DH,

DWI DOV/H, DHI DWI 7 = 0.02 × 0.24 x0.0s T-0.000 ZS DE tolot - DE1 x dowty - dy, dwth, = -0.02 = -0.02 Jant H1 = oct M1 (1-outH,) > 0-25 JM1 - 21 = 0.05 updaying w1:- w1 = w1 - 1, JE+120 = 0.10-0.5 C. 0.02) W1=0.10612

$$\frac{\partial \cot W}{\partial w} = 0.25$$

$$\frac{\partial \cot W}{\partial w} = nz = 0.10$$

$$\frac{\partial \cot W}{\partial w} = nz = 0.10$$

$$\frac{\partial \cot W}{\partial w} = nz = 0.10$$

$$\frac{\partial \cot W}{\partial w} = nz = 0.0012, wz = -0.00048, wz = 0.00024$$

) Etotal = -0.02