

(5) X1=1, X2=0, X3=1 t:1, 0:0.7 For Newson 4:  $a = (0.3 \times 1 + 0.3 \times 0 - 0.4 \times 1) + (-0.2)$ a = -0.1 - 0.2 = -0.3 Y= 1 = 0.425557 Ite-a 1+e0.3 For Newon 5: a=((-0.4)1+(0.1)0+(0.4)1)+0.25 a=00.25 y = 0.437823 For Neuron 6: a= ((0.42557)(-0.4)+(0.437823) x (0.5) ) + 0.15 a= 0.1986835 Pero 1 0 0.5 0 a 20.5

Error at 4: Com (t-y) g Court etto, y ey= (t-y) & [e6 w46] = 0 ey = -0.4 Error at 5: Es= (t-y) [e6 ws6] Es = -0.5 trove at 1: e1 = (t-y) [eywy = + e5 w15]  $= -0.4 \times 0.3 + (-0.5)(-0.4) = 0.8$ Elsor at 2: e2 = (t-y)[e4w24+ e5w25] ez = (-0.4x0.3)+(-0.5) x (0.1)

e22-0:17

es = 
$$(t-y)$$
 [ $e_4 w_{34} + e_5 w_{35}$ ]  
es =  $(t-y)$  [ $e_4 w_{34} + e_5 w_{35}$ ]  
es =  $-0.4 \times (-0.4) + (-0.5)(0.9)$   
es =  $-0.36$ 

2 Weight + learning rate xerror Weights

$$w_{15} = 0.3 + (0.7 \times +0.8) = 0.86$$
  
 $w_{15} = -0.9 + (0.7) \times 6.8 = 0.16$   
 $w_{24} = 0.3 \approx + (0.7 \times -0.17) = 0.181$   
 $w_{24} = 0.1 \approx + (0.7 \times -0.17) = 0.181$   
 $w_{34} = -0.9 + (0.7 \times -0.36) = 0.198$   
 $w_{35} = 0.9 + (0.7 \times -0.36) = 0.198$   
 $w_{46} = -0.9 + (0.7 \times -0.95) = -0.68$