

3.915 1+2.915 $h_1 = 0.2554$ N2 = 1 $h_2 = \frac{1}{1 + e^{-(-0.66)} - (-3.6)}$ -1/2 $h_2 = 1$ $1 + e^{0.66 + 3.6} = 1 + e^{4.26}$ 1 - 1 70.81 71.81 h2 = 0.0139 Neat we compute S3 S3 = h, ws + h, w6 = 0.2554 x (-0.2) + (0.0139 x 0.5) = -0.05108 + 0.00695 $S_2 = -0.04413$ Finally we can conquel 9 output 9 = 1 1 + p- W5h1 - w6h2 100

1+1-(-0-05108)-0.00695 1+0,07413 + 1.0451 = 0.48897 dh using back propagation dý x ds3 x dhi x dsi first we compute all the derivatives above $L = 119 - 411^2$ = 2(0.48897 - 0.5)- 0.01103 - -0.02206 $-(1-\sigma(S_3))\sigma(S_3)$ Since $g=\sigma(S_3)$ dg = [1-0.48897 × 0.48897 = 0.24987

