Bockprop hidden layer 0.15 output 0.20 W2 02 0.55/ 0.35 bias Forward Pass hi = wii + wziz + b, x1 = $\left(0.15 \times 0.05\right) + \left(0.20 \times 0.1\right) + \left(0.35 \times 1\right)$ = 0.3775 + Activation (Signoid) out $H_1 = \frac{1}{-2} = \frac{1}{-0.3715} = 0.593$ $1 + e \qquad 1 + e$ h2 = W3i3 + W4i4 + b4 x1 $= (0.25 \times 0.10) + (0.30 \times 0.05) + 0.35$ 0.39 + Activation (Sigmoid) out $H_2 = \frac{1}{1 + e^{-0.39}} = 0.596$

0. 2983

Scanned with CamScanner

For wights
$$\frac{\partial total}{\partial w_S} = \frac{\partial total}{\partial out} \times \frac{\partial out}{\partial out} \times \frac{\partial out}{\partial out} \times \frac{\partial out}{\partial out} = \frac{\partial total}{\partial out} =$$

gradient calculation, we need to update

the learning vote

WS - RV X dtotal

A W5 phiberbarameter 0.4 - 0.5 x 0.0821 0.3589 Do the same for ω, ω2, ω3, W4, W6, W7, W8. XXX