2018900087 Itanh(x) = 1- tanh(x) $\partial signoid(x) = s(x)(1-s(x))$ - y is the output signal. y = tanh (wix, + w2/x2) y = tanh (w, 2x, + w2/2) Youtput = o (w12y + w12y2) calculate loss (ever) & pass it backward. Next step, S(error) = (z - y)
actual predicted S, = Wi Soutput 52 = Wiz Soutput - Use computed erow to update weight co-efficients Wu' = Wu' + 2 5, 2 3/ x, 2 vii + 7 8, 2 tanh (wii x, + w2, x2) x, 2 W11 + 9 8, (1-tanh (K)) x1, where I

W21 = w21 + 7 S # 1 (1 - tanh 2 (m)) x1, m: W, x, + w, x2 ν22 = ν22 + η δ2 (1 - tanh² (n)) x,, For Layer hidden W? = W. + 7 Soutput 2 Joutput y, = W12 + 2 Soutput 2 (0-(W1, 24, + W1, 242)) 9, = W12 + y Soutput o(a) (1-o(a)) y1, where a= w = y + W = yz W12 = W12 + 1 Soutput o (20) (1-0 (a)) 42