Quiz-3

	Quiz-5
0	Enorin Debboarna
	My Manage water baseger mather
	Initial mate health of W. = 0.9 W. = 0.1, W== 0.3
	Initial weights / value of W=0.9, W=0.1, W=0.3 learning state, n=0.01
The	Jewining such it
	Activation Function is sigmoid, f=1/(1+e^(-u))
	2012.0 =
	i) Neval Network Asichitectuse:
	E01200 x (08.0x 5781.0-) 246
	Toposon Wromany (10000 0) w
	I2 W2 -> (Holden neveron H) - Wy -> (Output
	I3 W3 / 1. T _
	1× (0=600.0=) × 10.0. + co.0 V
0	Shidden neuron, net = W, I, + W2 I2 + W3 I3 = 0.40
	#= = F (nety) = 1+e-0.30
	- n.6984
	Output reuman reto = Wa H. $0 = f$ (reto) ≈ 0.544 = $0.30 \times 0.5987 \approx 0.1796$ Forman, $E = \frac{1}{2}(d-0)^2 = \frac{1}{2}(0-0.544)^2 \approx 0.148$.
	00 FF F F F F F F F F F F F F F F F F F
	Form $E = \frac{1}{2}(d-0)^2 = \frac{1}{2}(0-0.544)^2 \approx 0.148$.
	as a single of the same of the
	Nito it - newson = (d-0)0 (1-0) = -0.544 × 0.2478
	= 0-0.544=-0.544 >= 0.544 ×0.456
	- 112 1 12 19 H -0.2978.
	= 0.30 + n 80 H
	14 The rewron detta A for the total
	Those is the second of the sec
	1 de la mil de la frat

~ 0.30 + 0.01 × (-0.13 47) × (0.5987)

Hidden-newson douba, use old Way SH = Sx (W=12) H (1-H) ; H(1-H)=0.5987 × 0.4013 ~ 0.2403 = SH= (-0.1347 ×0.30) × (0.2403 ~ (0.04041) x 0.2403=-0.00970 i. Update weights forom inputs to hidden neuron: . For W, (00000 I, = 1): W, ← 0.30 + 0.01 x (-0.003 70) ×1 ~ 0.30 - 0.000097 00:0 = 0.2090 · Fon W2 ([2 = 1) : 0 = W ← (0.10 + 0.01 × (-0.00970) × 10.0 00000- 700000-01.0 -. For Wy (T3-0): = 0 W3 remans 0.20 50x 30-0-0 (0-0 -, Weights after W, = 0.29990, W2=0.09990 Mg=0.20, Wq ≈ 0.29919. Test first sample (1,0,0) Hilden met H = 0.29990.1+0.09988.0 neuron + 0.20008.0 = 0.29990

C

C

9

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B

C

Q

Q

3

8

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0

8 200

hidden reuson output, H= 5 (0.29990) 20.5744 Output rougon input: neto = Wq. H = 0.29914 x 0.5744 ~ 0.1717 Fral output, 0 = 6 (0.1717) ~ 0.5428 Since 0.5428 70.45 prediction: class 1

present, home

positive, cond. Test sample 2: (0,0,1) hidden neuron input, net = 0.29990.0 + 0.09988.0 40.20008.1=0.20008 hidden newson output, 4 = 6 (0.20008) : teget newson type o net = N4. H= 0.29914 x 0.5500 ~ 0.1645 Final output: 0 - o (0.1843) S 0.5910 ; smce, 0.541070.45 prediction: class 1 positive, priesent, three