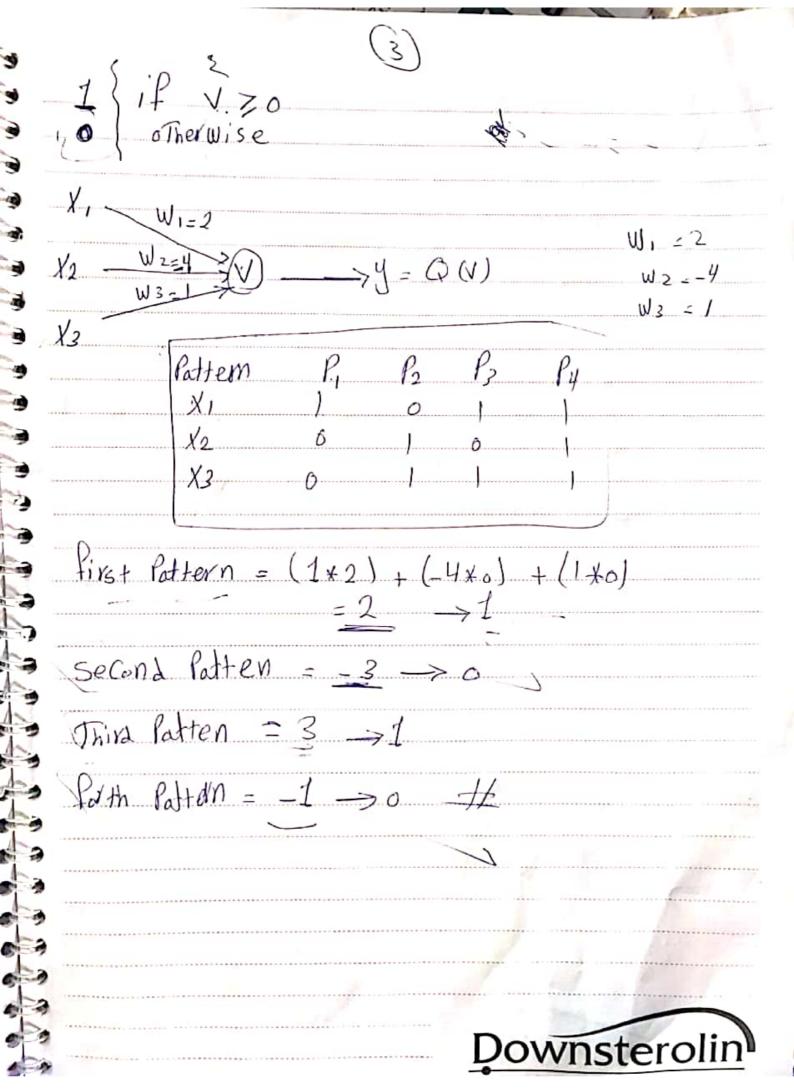
Perceptron $X_0 = \underline{1} \rightarrow (0.6)$ Threshold = 1.2 $\chi_2 = 1 \longrightarrow (0.8)$ #Ster o $\Sigma = (1 \times 0.5) + (0.2 \times 0) + (0.8 \times 1)$ 1.3 > 1.2# Need To Recalculate Weight W_+, = Wn + n[d(n) - d(y)] X(n) $W_1 = W_0 + 1 \left[0 - 1 \right] \times (n)$ $W_1 = [0.5, 0.2, 0.8] + (-1)[1, 0, 1]$ $W_1 = [0.5, 0.2, 0.8] + [-1.0, -1]$ W, = [-0.5, 0.2, -0.2] \$ (0.5 ×1) + (0.2 × 0) + (-0.2 × 1) 1.2 > _0.7 > 0 Scanned by CamScanner



Second Weight update [0.92 0.76 0.28 0.12] $d_{01}^{2} = (0.2 - 0)^{2} + (0.6 - 0)^{2} + (0.6 - 0)^{2} + (0.9 - 1)^{2}$ = 0.66 \ Winner $d_{12}^{2} = (0.92 - 0)^{2} + (0.76 - 0)^{2} + (0.28 - 0)^{2} + (0.12 - 1)^{2}$ (= 2.28) u Pade Weight (new) = World + h[x-Wold] W(new) = [0.2 0.6 0.5 0.9] + 0.6 [0 0 0 1] _[0.2 0.6 0.5 0.9] = [0.08 0.24 0.20 0.96] [0.08 0.24 0.20 0.96] [0.92 0.76 0.28 0.12]

ise.	عن و او من المرت الوقع والدو إن المرت - والمنية بالمذ الاتح والدون المرت عن والمناه
Rin	a) elaceloice acotal sinis ever villion S-18, received of Each Node > Calculate Error of Each Node > Step 2 Calculate Error of Each Node >
ì	out 6 -> 0.475 (1-0475) (1-0.475) = 0.1311
9	Hilden 5 -> 0.625 (1-0.625) (0.1311) (-0.2) =0.0085
9	Hilden 4 -> 0,332 (1-0,332) (0.1311) (-0.3)
39	
9	Stel3 uPdate Weight
9	(Wyb = -0.3+0.9 (0.1311 + 0.332) = -0.261
9	W56 = -0.2 + 0.9 (0.525 * 0.1311) = -0.138
9	Way = 0.2+0.9 (1 x -0.0087) = 0-192
4	W15 = -0.3 +0.9 (1 × 0.0065) = -0.306
9	
9	
3	
<u>а</u>	***************************************
3	
3	Downsterolin

Ezetimibe 10mg/ Simvastatin 20,40mg

Third Weight update
$$\begin{bmatrix} 0.08 & 0.24 & 0.20 & 0.96 \\ 0.92 & 0.76 & 0.28 & 0.12 \end{bmatrix}$$

$$d_{(1)}^{2} = (0.08 - 1)^{2} + (0.24 - 0)^{2} + (0.20 - 0)^{2} + (0.96 - 0)^{2}$$

$$= \begin{bmatrix} 0.92 - 1 \end{bmatrix}^{2} + (0.76 - 0)^{2} + (0.28 - 0)^{2} + (0.12 - 0)^{2}$$

$$= 0.68 \iff \text{Winner}$$

$$\text{UP date Weight}$$

$$\text{W (new)} = \text{World} + \text{N} \begin{bmatrix} \text{Way} - \text{World} \end{bmatrix}$$

$$= \begin{bmatrix} 0.92 & 0.76 & 0.28 & 0.12 \end{bmatrix} + 0.6 \begin{bmatrix} 1 & 0 & 0 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 0.92 & 0.76 & 0.28 & 0.12 \end{bmatrix}$$

$$= \begin{bmatrix} 0.92 & 0.76 & 0.28 & 0.12 \end{bmatrix}$$

$$= \begin{bmatrix} 0.92 & 0.76 & 0.28 & 0.12 \end{bmatrix}$$

L 0.92 0.30 0.11 0.05

9 9



#SOM

** Thitial Weight Matrix (Value between 0, 1)

unit 1 [0.2 0.6 0.5 0.9]

unit 2 [0.2 0.6 0.5 0.9]

i1: (1,1,0,0,0)

i2: (0,0,0,1)

i3: (1,0,0,0)

i4: (0,0,1,1)

Steff 1
$$\Rightarrow$$
 $d^2 = \sum_{i=1}^{2} (W_{ij} - X_i)^2$
 $d^2_{ij} = (0.2-1)^2 + (0.6-1)^2 + (0.7-0)^2 + (0.9-0)^2 = \sqrt{1.56}$
 $d^2_{ij} = (0.8-1)^2 + (0.4-1)^2 + (0.7-0)^2 + (0.3-0)^2 = \sqrt{35}$

unit 2 = image urbate X view $X_{ij} = X_{ij} = X$

#XOR Example $H_1 = (0 \times 4.83) + (1 \times -4.83) - 2.82$ out Put = 1/1+e7.65 = 4.758 × 10-4 H2= (0+-4,63) + (1+4,6) - 2.74= 1.86 out Pat= 1/1+e-1.86 = 0.8652 (4.758 ×164 ×5.73) + (0.8652 × 5.83) - 2.88 = 2.187outlut= 1/1+e-2.187 = 0.8991 = vnsteroli

BackProb. Æ. W,4=0.2) W15 = -0.3 W24=04 W25 - 0.1 W35 = 0.2 W46 = -0.3 W56= -0,2 #Step 1 ₩out 4 -> (W14 * X1) + (W24 * X2) + (W24 * X3) + (-0.4) > Same Way (0,332 x W46) + 0.525x WS6) 4 Scanned by CamScanner # Perception

ster o
$$Xio = 1 \longrightarrow (0.5)$$

$$X_1 = 0 \longrightarrow (0.2)$$

$$\frac{\chi_2}{2} = 1 \rightarrow 0.8$$

$$\Sigma = (1 \times 0.5) + (0.2 \times 0) + (0.8 \times 1)$$

í)

$$W_1 = W_0 + I[0-1][1,0,1]$$