Logues Regression

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Clossification => It-is a technique concerned

neith expanding dieland- set of objects

neith expanding and ninh allocating

(or observations) and ninh allocating

new objects (observations) to previously

new objects (observations) to previously

defined groups (labeled classes)

Rainohan

Veural No Arkfalal Neural Nebrorks (Anni) If  $V_{gl}^{(a)}$   $A = \sum_{n=0}^{(a)} V_{n} \times x_{n}^{(a)}$  A = ach  $A = \sum_{n=0}^{(a)} V_{n} \times x_{n}^{(a)}$  A = ach  $A = \sum_{n=0}^{(a)} V_{n} \times x_{n}^{(a)}$  A = ach A = acMje 2) refers to weight corresponding

to 8th neuron in layer (Wyoth bid

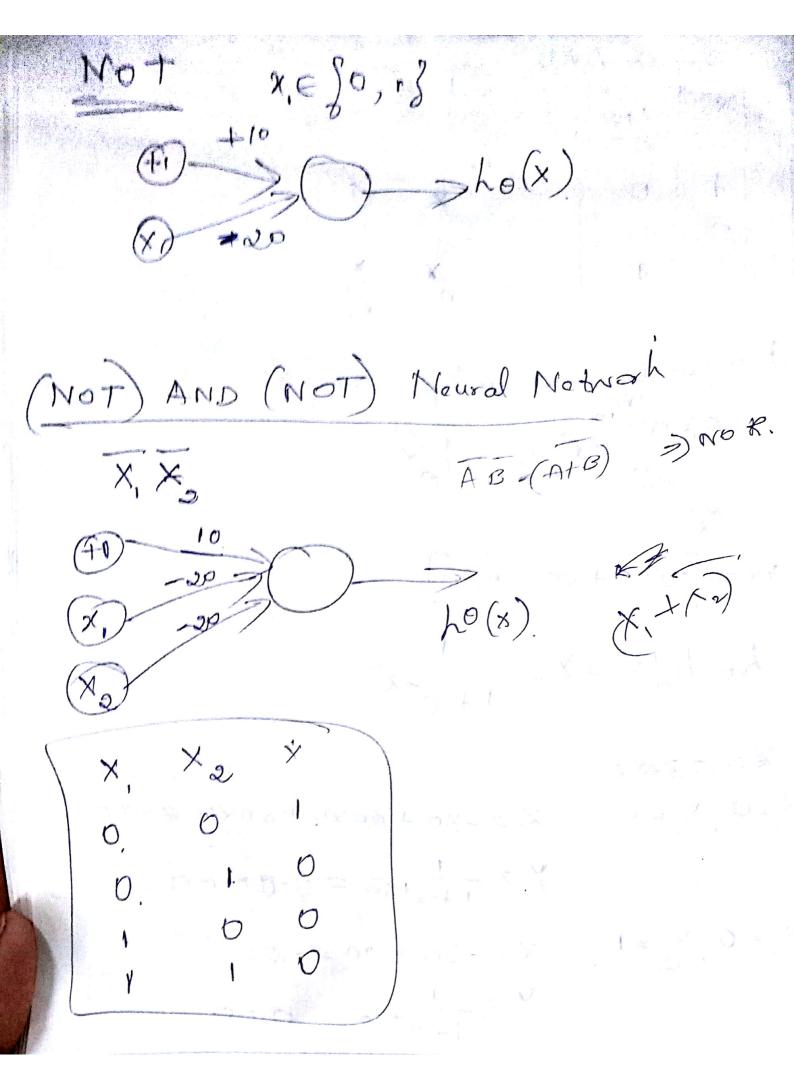
9th neuron en layer 2. (Wyoth bid

9th neuron en layer 2.)

(h) Sunnation output of Ith neuron (k)
To 2) °18 the adapt from layer & H  $Z = L(a_1) (i)$   $Z = L(a_1) (i)$   $Q_1 = \sum_{i=0}^{2} A_i$   $Q_2 = \sum_{i=0}^{2} A_i$   $Q_3 = \sum_{i=0}^{2} A_i$   $Q_4 = \sum_{i=0}^{2} A_i$   $Q_5 = \sum_{i=0}^{2} A_i$   $Q_6 = \sum_{i=0}^{2} A_i$   $Q_7 = \sum_$  $Z_{3}^{(3)} = h(Q_{3})_{3}$   $Q_{3}^{(3)} = h(Q_{3})_{3}$   $Q_{4}^{(3)} = h(Q_{3})_{3}$   $Q_{5}^{(3)} = h(Q_{3})_{3}$ feed forward propagation

Scanned by CamScanner

AND AND	
X X2 AND	
6000	
0 6 0	
1100	
The state of the s	
0/ 2/	
Randonelya, ne assign weight	
W <sub>1</sub> <sup>2</sup> +20	
(x) $(x)$ $(x)$ $(x)$	
W12	
W = [-30 + 20 + 20]	
W 2 30 TW	
$\frac{1}{\sqrt{2}}$	
to hw(x) = y = 1+e-2.	
Z==30X X =0 X =0 Z=-30+ 20 X0 + 20 X0 =-30.	
X 20 X 20 X 20 X 2-30.	
$X_{120}, X_{120}$ $Y_{1+e^{+30}} = 0.00000$	
1 176	
X = 0 X = 1 Z = -30 + 20 = -20.	
$X_{1} = 0, X_{2} = 1$ $X_{2} = -30 + 20 = 0$ $Y_{1} = \frac{1}{1+e^{+20}} = 0.0$	
Y 2 - +20	
121 × 20 × 2	
$x_1 = 1$ , $x_2 = 0$ $x_2 = 0.99$ $x_1 = 1$ $x_2 = 10$ $x_3 = 10$ $x_4 = 10$	2
x =1 22+10 / 1+e	
$X_1^{21}, X_2^{21}$ $Z_2^{21}$ $Z_2^{21}$	



Non-linear Classification XNOK ABTAB YOK. X AND X2 Combined, X, AND X2 Combined, X, OR X2 13 1 1/15 +1 420 (a) A13 TOPEAR XAR