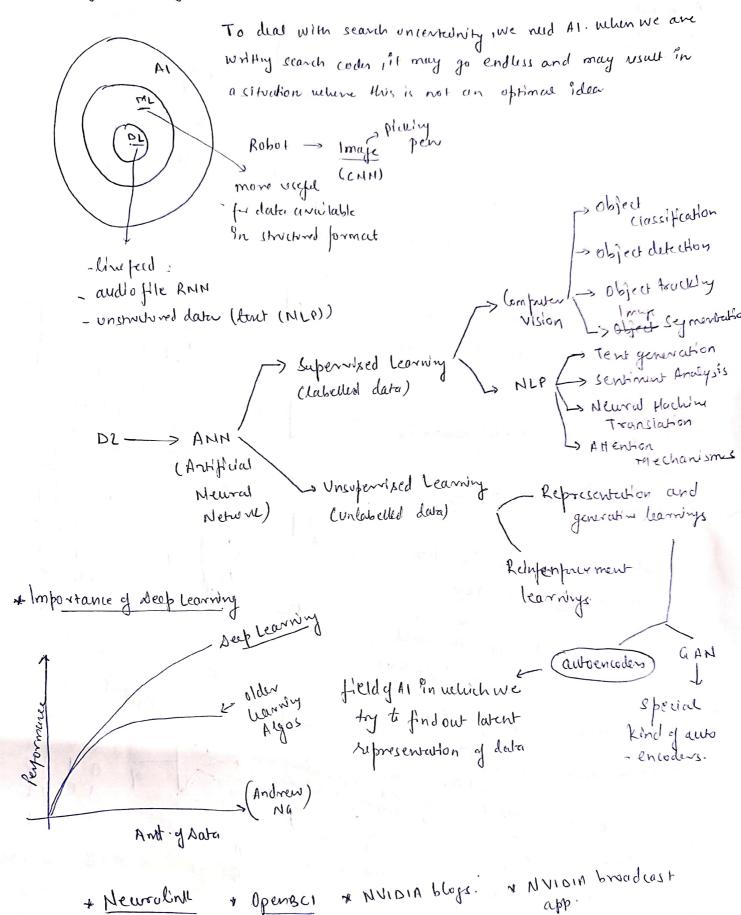
app.

Artificial Intelligence: Humans Want to automate Ludi mentary tasks



+ OpenBC1

ANN VS BHN

ANHFURD Neural
Neural Neural

Network

* Perception

→ invented by Frank Rosanblatt in 1957:- paper

"The perception: A pushablish a model for information, storage & organisation in the brain".

different from 1st arrificial numer in

1st neuron so input was binary

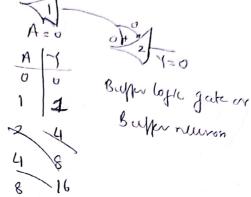
Perception architecture is also
Known as LTU or TLU

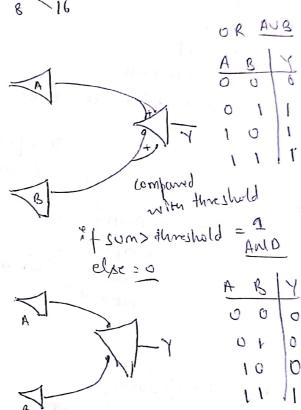
Linear Threshold Wait Thresho

Linear Threshold Unit Threshold Logic Unit

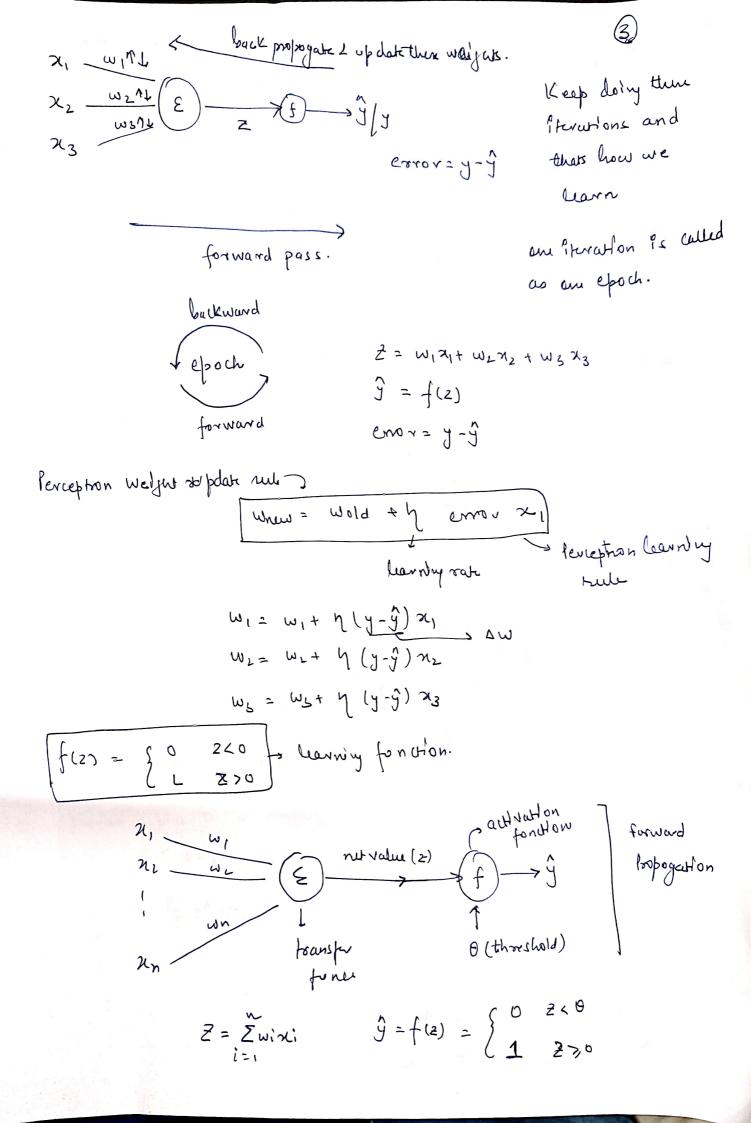
1943 Artificial Neuron] Read this paper

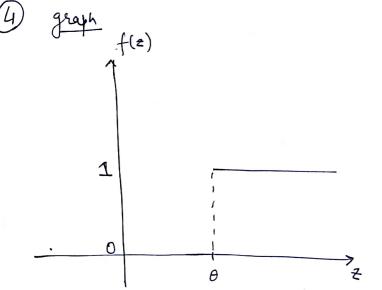
threshold = 2



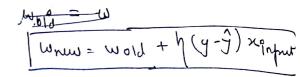


AUB (4-B) Task: - To make a good cup of tea 4 Winay dossification (good tea 1 all rappor Levision Honl' function. 2 IL Mile 6.27 weights. 221 kg Tea (0.1) A= 1+1 p-B = 2-(-1) good bod R = -1 ng 1 kg Sugar (0.08 =3phreshold Predicted Pintermedick throughold = 0 -1 4 = a wa

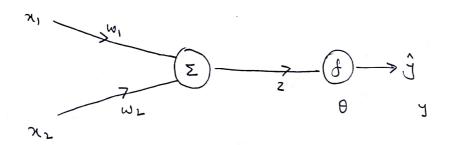




ball word loso pogation



* follow tun eycle till emor xo.



$$\hat{y} = f(z) = \begin{cases} 1 & \neq 70 \\ 0 & \neq < 9 \end{cases}$$

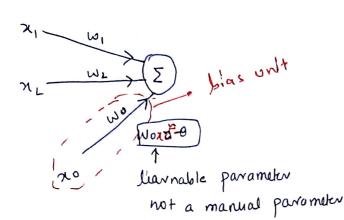
$$\frac{\partial}{\partial x} = \frac{1}{2} \sum_{i=1}^{N} \frac{1}{2} \sum_{i$$

$$= \begin{cases} 1 & W_{1}x_{1} + W_{2}x_{2} - \theta & 7,0 \\ 0 & W_{1}x_{1} + W_{2}x_{2} - \theta & < 0 \end{cases}$$

W, x, + W2 x2 + (W0 x0) box like a third radable -> less modify our

we need to set. It will

harn on its own



Assumption WIXI+ WL X2 -0 =0 $\chi_{2} = -\frac{\omega_{1}}{\omega_{2}} \times 1 + \frac{\Theta}{\omega_{2}}$ x2 = -m x1 + b

new mount

m will be

a notation

Now b= @ "I is helping in providing a ship and ensuring classification

doesn't "It look

Responsible for Lotation.

like clossification to will be a Shifting factor for the line a ka translation factor

> b -> 0

to make a model more generals we need to provide a blos to a model.

M, = -mM,] line pass though origin and this may not be helpful as blas is helpfu us to properly segregate Classes-

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	•	AND	Date			72 1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		N,	712	y	0 = 0 1 = 0		b=	<u>8</u>
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A	O	0	0		(M)		W_
c 1 0 0	B	0	1	٥				$\frac{\omega_1}{\omega}$
	C	1	0	0		(hora) (hora) N,		~
D = 1 + 1	D	1	. 1	1		x2 = - mm	4 7	