* Artificial Neural Networks

* Neurons

* The perceptoon & Single layer Neuralnehook.

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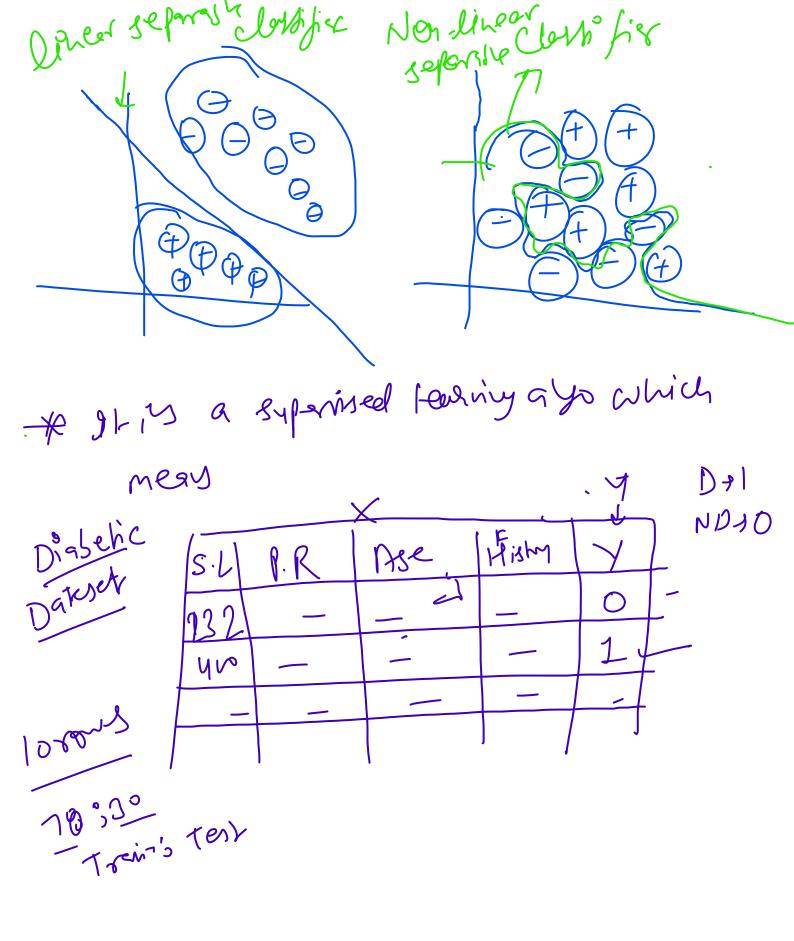
Simple of ANN

Serception on

Binary dampier-

ef

* It is gonerally used for Sinary Classification or for linear Pattern Merrification.



Activation function J: X bias(6) /Thresholld function Jws 1 yin = 5 x. W+6 + 11/46 if w.m.+6<0 W.7+5>0

Activation function- classifier into 0 k1 Sigmoid $f(n) = \frac{1}{1 + e^{-n}}$

f	
X	Y
232	1
161	Ō
152	1
137	

wew = wold + (40 - 7i)You Target of P

fredicted of 4.0

Algo initiaire Weights = 0 SKPL'Sbiay = 0 Jet « (OLL)

While stopping criticia is falso do step3 to step7.

for each training point (71,7) do stp \$ to 6

Calculate the off unit response $\mathcal{J}_{i3} = 5t \geq \frac{5}{i3} \text{ Works$ achivation function if Yin >0 7:7 (' 1 0 -1 if -054in 50 it yin < 8 Step (1) update the weight & Gras if terget & fredicted of. if t py 22 1; \$0 r wi° 2 Wi° 14 x. € Ni° 1 6 new 2 6 old + 4.t

elle

wi = wild bi = wild

Step :- Test the stopping criticians it may be weight chayes.

ATAMOLIST.