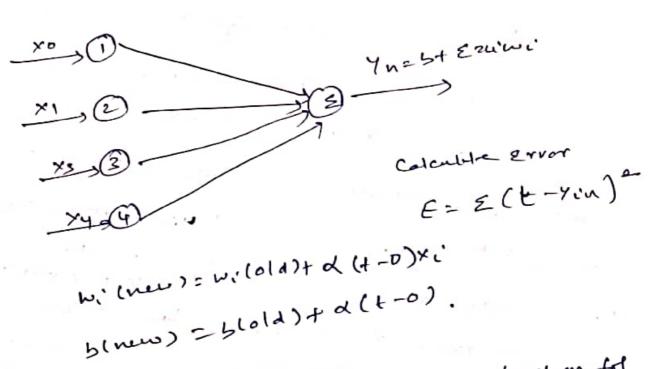
) A network with a single linear unit is called

Adaline (Adaptive Linear Neural).

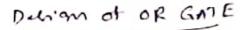
· I/p-0/p relationing /a linear

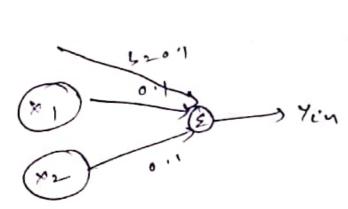
The must with linear advisting franchis liver unit.

, Ada line uses by poler activation function to the



reception utilizes a Linory step fundran fol Mf. colom, making it suitable for whony teers. teine Employs a Continuing linear activation retrain, everling it to Fraduce Continuous Valued 1Jur.





X1 x2 t 1 1 1 1. -1 1 -1 1 1 -1 -1 -1

guirally the weether and lines are assured the small, say oil and the learning rate set to oil Also, here the least square evvort let to

The weights one updated until the Guarred error is greater than least squared error.

The neight an sel- to w,=wz=4=0.1 and the 4in= 0.17+0.17x1+0.17x-1

Yin= 5+ 1, w,+ 1262

=0.14 1x0.141x0.1 =0.3.

Now Compte (+-12)= (1-0.3)=0.7

update the weights

0.14 0.1 (0.7)001 = 0.17 01+01(0.7)=1=0-17 Ø·1+ 0·1×0·7= E = (+-410)= (0.7)

LUXE TO KTA ONIKON 4-4:n= (1-0.17)=063 W1 = 0.17+0.1(0 83) 1=0.253 W1 = 0.17+ 0.1(0.83)(-1)= 0.057 Mi(nero) = Mi(0/4)+ Ami Dui=x(+.0) mi == 0.17+ 1x0.8=0.253

= (1-0.17) = (0.83)

Tund gupul- (-1, 1). (3) yen= 0.253+ 0.253(-1)+ 0.087×1 = 0.243 + 0.263+0.067 = 0.087. (t-0) = 1-0.067 = 0.913 W1= 0.25 st 0.1 (0.913) (-1) = = 0.00 MR 0.1617 coz: 0== 3 0.087+ 0.1(0913)(1)= 0.1763 5= 0.253+0.1 (0.913) - 1258 ×0.3443. r= (t-bin) = (0.913) = 0.83 Fourth 11 (-1,-1). Sin = 0.3443+ (-1) (0.1617) (-1×0.1743) = 0.0643 . (t-0) = (4-0.0043) = -1.0043 W1 = 0.1817 + 0.1 (-1.0043)(1) = 0.26-1 W2 = 0.1763 + 0.1( -1.0043)(-1) = 0.2787 5 = 0.24477 0.1(+1.0043) = 0.2439. E = (+-411N) = (-1-0.043) = 1.01

Total esuch after epoch 1 = 0.49+0.69+0.83+1.01 = 3.02

But empected everd was 2. So again rehale to com

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