0 1.2 0.70

917 Given data: need to initiate. Tweight vector of bigs term

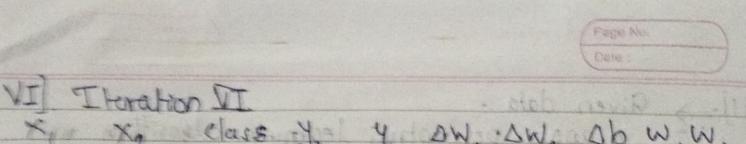
Therefore, initial weight vector = w=[1,1] Bias term = b = 0. , x, + x2 = 0 learning rate = 1 data x, o x2 class. 9-10 0-12 301 -11 0 0.5 0.5 -1 .... 0.1 0.2 0.2 +1 0.9 0.5 1 = Wixitb = Wixit w, x2+b.  $f \Delta W_1 = \alpha t x_1$ ,  $\Delta b = \alpha t x_2$ Now apply the perception algorithm to give data of count the no of update until all sample are classified correctly.

Terration I Iteration I  $\times$ ,  $\times$ <sub>2</sub> class Yin y DW, DW2 Db W, W2 b (t) 0 0 05 -1 0.5 0 -- 05 -1 1 -0.65 04 0.2 0.2 1 19 67 0

0 +1

0.5 1.41 1.43

							John 1	1	*
Il Ilen	ation.	II.				-*1	W,	Wa	b
4	X <sub>2</sub>	tlass	din d	DW,	DW2	DD		7	
	4		and the factor of the second second second second second	Hais		0	1.2	N.7	0
1	1	+1	19 +1		0			5.7	0
0-1		,-1	19 -1	0	0				-1
0	05	-1	0.35 11	0				2.2	-1
0.1		di	~0	0	0			-	
	0.2				0.2	1	1.4	1.9	0
0.9	05	+1-	1.46 +1	0.	01	0	1.4	3.4	
					0				
-111)-	Therat	ion - I		10		2			
-11	Tlora	(0)	e	p		9			
×.	X.	class	4. 4	DW.	DW,	Ab	W,	W2	b
1	1	+1	18 +7	0	0	0	1.4	6.4	0
-1	1		-1.8 -1		0	0	1.4	0.4	0
0	0.5		0.2 +1			-1	1.4	-0. ]	-1
No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	0.5		-0.81 -1	0	. 0	0	1.4	-0.1	5-10
0.2	0.2		-0.74 -1	0.2	012	01	1.6		
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ना न	-tenation	V. 0					WA	19	
4) X.	X	closs	din y.	DW,	DW2	Dh	W.	W.	b
,	12	+1	9m 41	0	0	0	1.6'		
-)	-1		+1.7 -1	0,	0	0	1.6		
0			0.05 +1				1.6		
0.1	05	-1	-1.04 -1	0	0	0	1.6	-0.9	7
0.0	0.2	41	-0.76 -1	0.7	0.2	1	1.8	-02	0
21	9 05	5 +1	1-52 +1	0	0	0	1.8	-0.2	0.
一门丁	terati	V-100		5		741			
X	X.	class	Hin 4	WA.	DW 2	Ah	W, 1	Wa	6
			96 \$		0 2		1.8 -		
-1			-1.6 -1				18 -		
			-0.1 (-1			0		0.2	
					.0.5		1.7		
				SCHOOL STREET,	0.2	The same of the same			A CONTRACTOR OF THE PARTY OF TH
0.9	05	+1		0	9		1.9	0.5	0
VISITE STATES	Stories	The state of the s	contract and a second contract of the second	The second second	•	0	1.9 -	V.5	



X X Cass y DW. DW. 1.4 H12 0 0 0 19-05 0 +14 -1-000 -0.5 0 -0.25 - 0 000 0 05 0 1.9 -0.5 D 0.5 17-1 1-101-1 -0.06 -1 0 0 0 19 -05 0 0.9 0.2 #1 0.28 +1 0 0 1.9 -0.5 0 0.9 +1 0.5 1-46-+1 0 10 -0.50.

Task!] -> The perception learning algorithm
converged in 6 iteration.

Task 2] = The final weight vector of the decision boundry is w = [1.9-6.5] 1.9x, \$0.5x2 = 0.

We can see that 1.9x, -0.5x2=0 line seprale the

