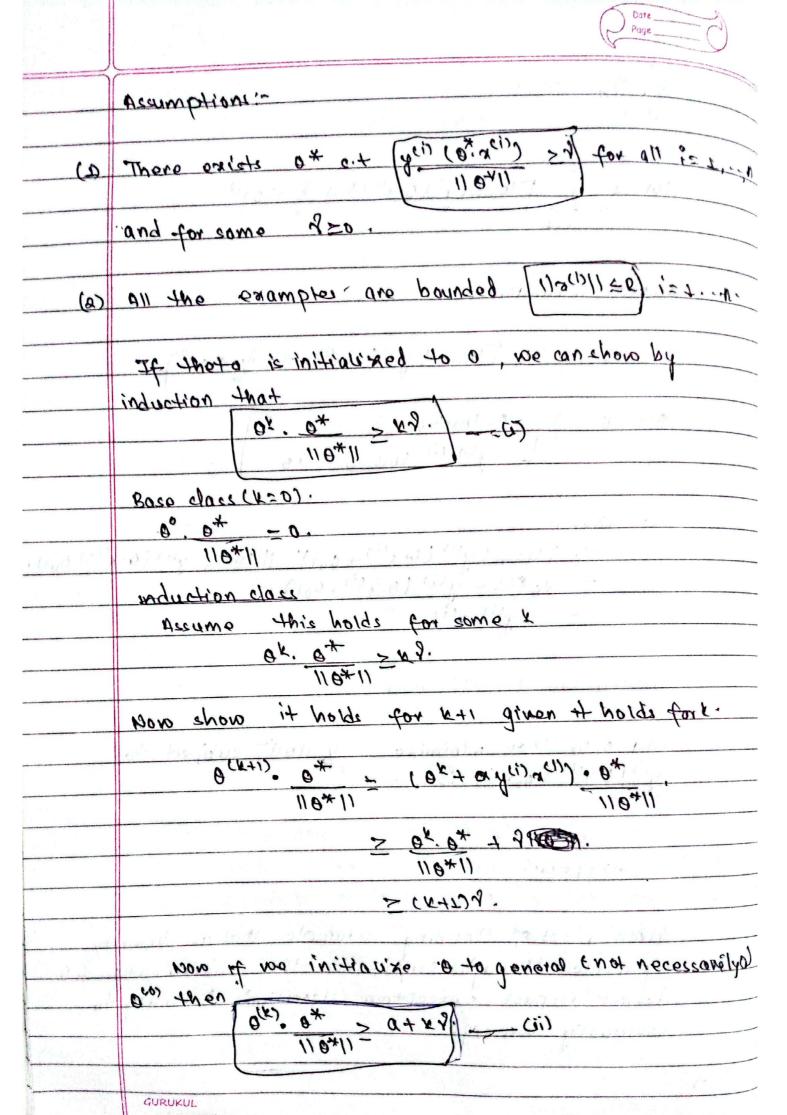
TOFODEN! -

given a set of training example that are binearly coparable through arigin. Show that initialization of a dobrit impact perception algorithm's tability to eventually converge.

GURUKUL





End ting a ? (0= 0,0) 0x.

If a is initialized to a mo can show by induction

..

11 Ocetiolis = 11 Oces + Acide culls

= 11 Q(x)11,5 + 5 A (1) (Q(x) A(1)) + 11 D(1) 11/5 = 11 Q(x) 11/5 + 8 Q(x) A (1) A (1) A (1) A (1) 11/5

no know throughter any nomons - for inschrich.

110(x+1) 115 = 110(x)115+ 113(1)115

= 110(m)115+ 65

= K65+65

= (K+1)65

which vonifies induction.

wow

II DIES 112 FR5+ 55 Il

Determine of olo,

from above inequality, we can derive inequality.

11911 = c+ 186/ . | .. of Po= (0+0) =

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C late Fogs

1	and using
	(8' .0" L1.
	110×11 116+1)
	21. Kg -1 -: 0x. 0x 3 Mg/ 8"
1	1/46 110411
	or, 1x.3 c1
1	Q.
-	⇒ (F = 55)
	(72)
7	

In case where we initialized a to general of the inequality for all 110+11

to derive a bound on number of iteration &

 $\frac{\log \sqrt{\frac{\log \sqrt{11}}{\log \sqrt{11}}}}{\log \sqrt{11}} = \frac{\log \sqrt{11}}{\log \sqrt{11}} = \frac{\log$

and it we initiatized 0-30(0) then

110*11

110x11 7 C+1x5 - (**)

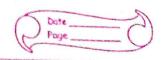
and upperbound of (**) should we dill move volve smaller and as a result inequality solicited.

CHEAK CT.

or atky ectric.

a K3- 51x +0-0=0

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or let NK=+ => +2=K. and it med and deduces to: and, 2+2-R++a-c <0.

50 /2 to 67/65-45(0-c) > 67/65+45(c-a)

and k=t2

= (E + 1/ E2+ 48 (c-a))2 = (E + 1/ E2 + 47 (c-a))2

and for upperbound taking positive sign.

(". K= (P+1/6+4)(c-01)2)