ADABOOST ALGORITHM

boasting Adorptive Adaboost Algorithm > -> used for face detection A model that have aremacy is approximately weak (earners-Adaboost combine all everit learners model and note a strong model (stage unse addise nethod) -it is one of the type of neak learners.

where roax-depth = 1 then recors only one split, we use that split in which entropy it HAA

split, we use that split in which entropy it HAA

to and -1: In the adaboost we have the two class +1 (+vc) and for example {7.5, 81}-? -1 (-ve) + - + Sumpling + -+ + h(x)- sign (<1.h, (x) + <2 h2(x) + <3 h3(x)) = + ve or +ve

$$h(x) = 2(-1) + 10(3) + 1(-3)$$
= +7

here for $47.5981^2 \rightarrow +ve(3)$

placement to Jazega

y_prid)	×11	*.	4	their	n= 5 neight=1/5= 0.2
	3	7	1	0.2	112
1	2	9	0	0.2	t] miss classified rang
(0)	1	4	1	0.2	
0	9	8	0	0.2	49 H 21K 10 12 m312 12.45
0	3	7	0	0.2	I'm Algebrane motor

Step-1. toain your decision told on above dolars

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Step-1. Set to in which model-m1

Stump) Let us model-m1

Sta model-m; the x; and \$x in put \$to?

3th X-pred generate 2011

X, is the weight of m, model and

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X, depends on the error rate on above dolars.

×, × 1 error rate

evor rote = 1 - accuracy

evor ples mode evor rote

o". e more reliable moll

[] 100%. = 2nd most reliable

[] 504.

enrag

0

x= 1 /2 (1- ever) for colculating error. -> chaose missclossified soculs. - add them - one get the error 0.2+0.2=0.4 in abone dala emor= $\propto_1 = \frac{1}{2} \ln \left(\frac{1 - 0.4}{0.4} \right)$ step-2 उन्होंने reodel की town करने से पहले missclassified raw à importance at act faut mon & using up-sampling it mean miss-classified ran and unight ast fast Alweit, or also decrease the aright of other some.

For misclossified.

new-wt= current x ext

For correctly clossified.

new-wt= current x ext

 $wt_{2} = 0.2 \times e^{0.2} = 0.24$ $wt_{2} = 0.2 \times e^{-0.2} = 0.16$

T	V 1	X2	1 4 1	Y-pred)	theight	updated	Horndized	range
+		12		1-4		0.16		
	3	7	1	1	0.2			0.166-0.416
	2	9	0	1	0.2	0.29		
T	1	4	1	0	0.2	0.24		0.416-0.666
+	9	0	10	0	0.2	0.16	1777	0.666-0.832
-	3	7		0	0.2	0.16	0.166	0.832-1.0
		+	0		0.2		1	8
-				1	1	0.96	in the	-10 0

50 and only number ? generated b/w o and I	lisson
0.13	- sam
6.43	-20m.3
0.62	- 8am 3
0-50	ran 3
0.80	song

hence raw selected is [1, 3, 3, 3, 4]

by final of places

674 115

- 40 .7004

326

100 - 30- 200 20 - 20