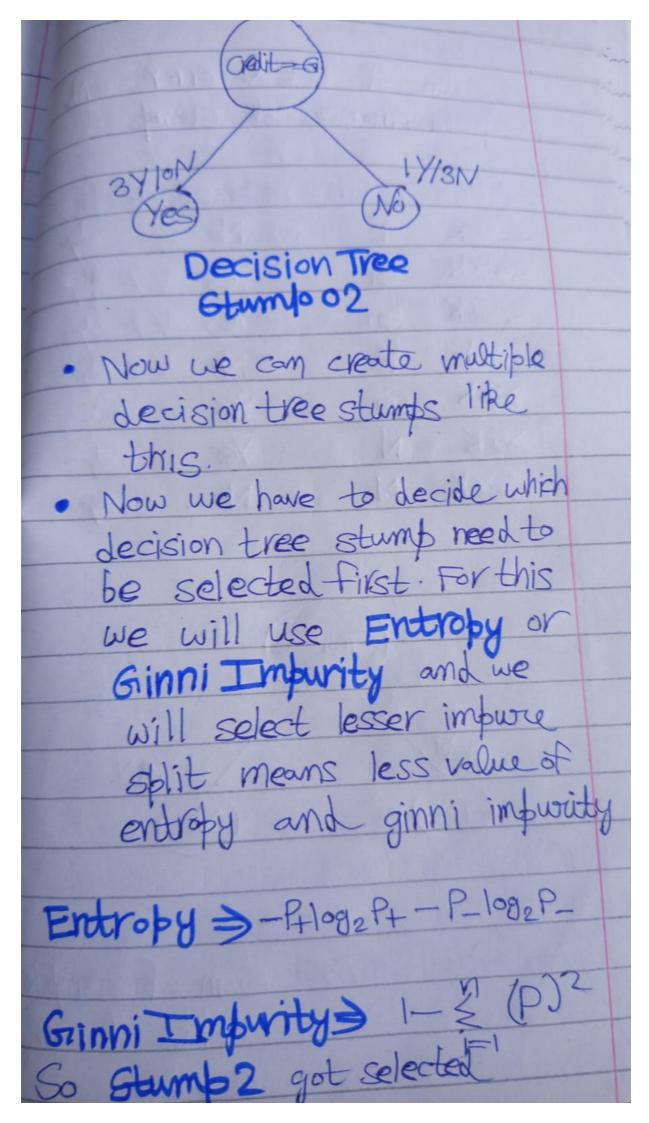
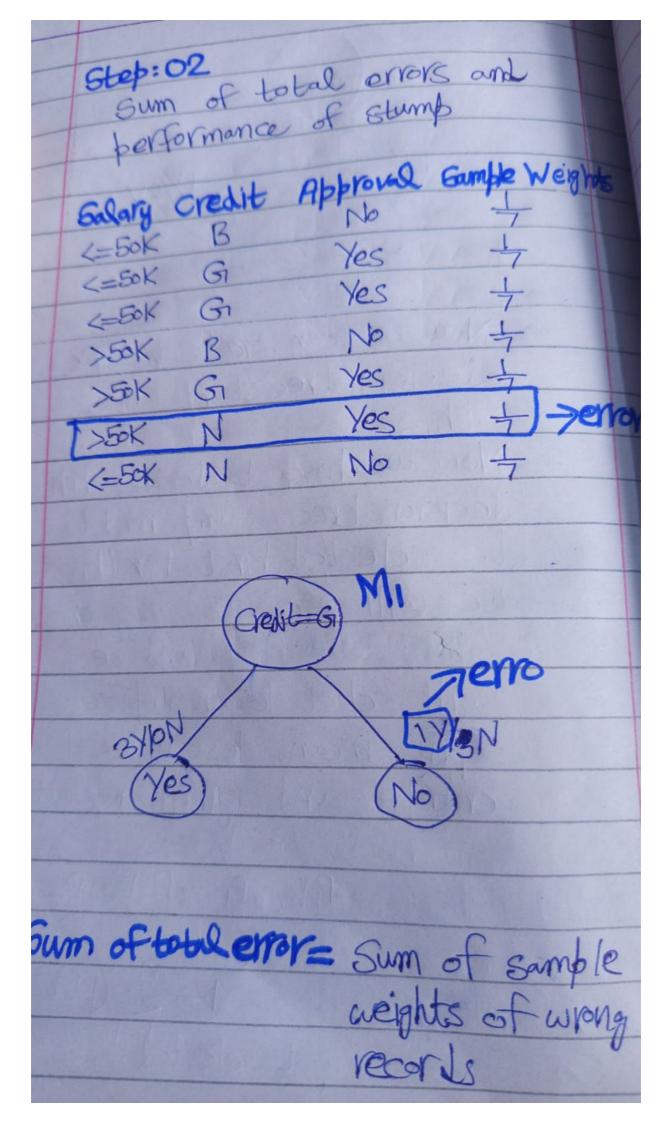
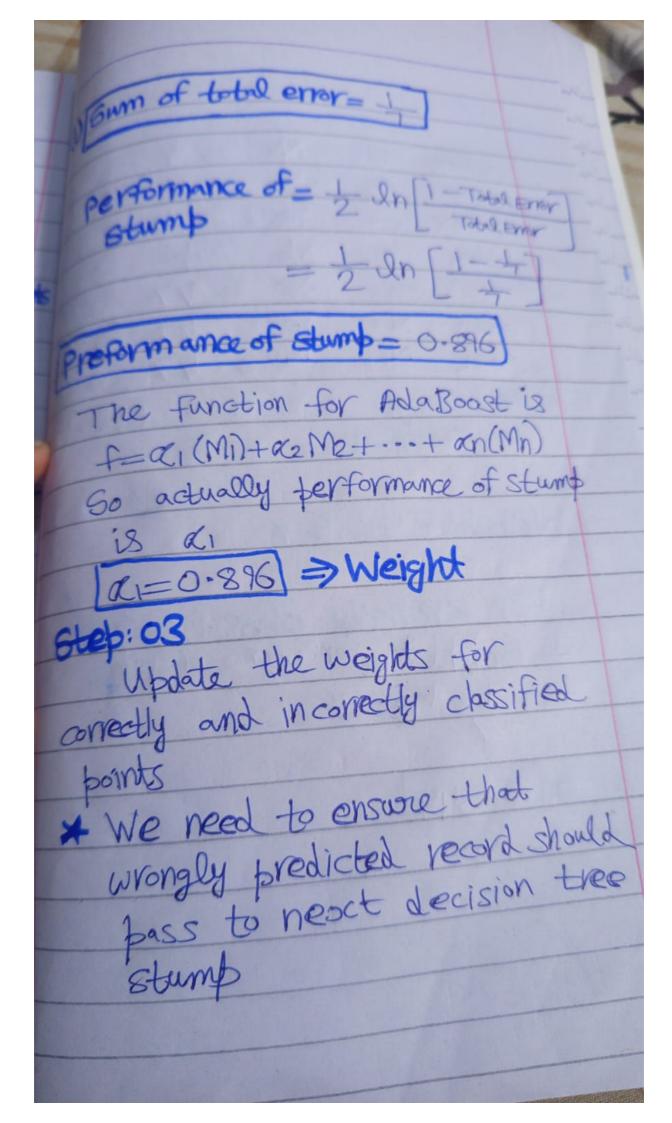


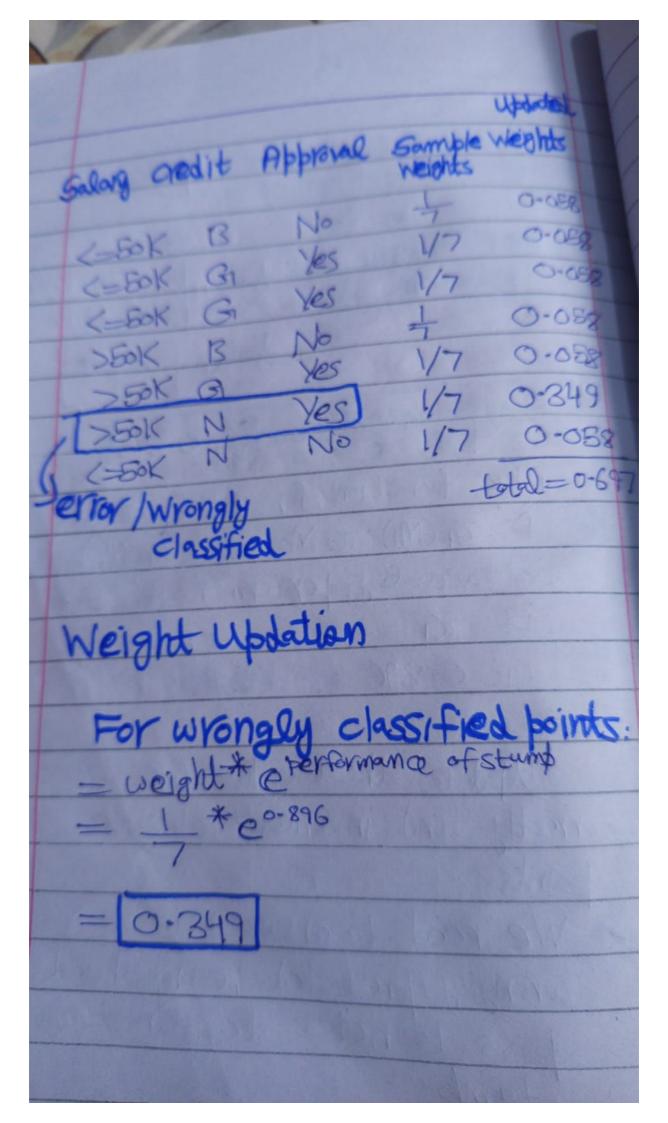
Assigned weight The week learners ada Boost function will look like = 2 (M1) + 2 (M2) + 3 (M3) + ... + 2 (Mn) where Mig--- Mn -> Decision Tree Stumbs anazoman -> Weights Decision Tree Stump Contains decision tree whose depth is just | Decision Tree stump (Weak learner) > It leads to underfitting Less Train Accuracy -> High Bigs More Test Accuracy > Low Variance > But in AdaBoost when we ensemble the Decision Stumps in Serialize sequential order it leads to Low Bias High Variance

a mifier	Maths
AdaBoost Classifier Intuition:	
	proval
GARAYY CIECUTO	No
J-BOK D	Yes
2=50K G1 2=50K G1	Yes
>50K B	No
SSK G	Xes Xes
>50K N	No
2-50K N	
	ician tree
Stepl: We create de	and we select
stumps (depth=1)	or Ginni Indurity.
stumps (depth=1)	
(Salony SOK)	
	VIII BUILD
	(2,64) 23 (2)
	WAR THE REAL PROPERTY OF THE PARTY OF THE PA
24121/	12 Y/IN
(ks)	(N)
Decision Tre	
Stump	THE PARTY OF THE P



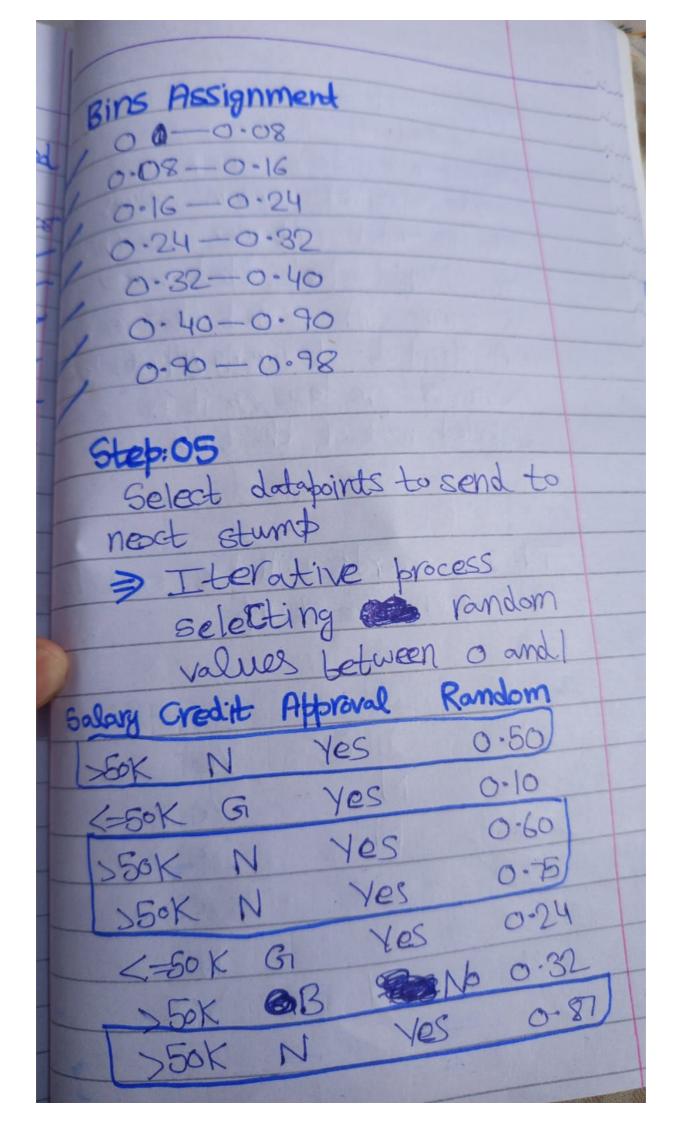






for correct weight * e (terformance of clump) 1 xe (0.896) = 0.058 > You can see that in updation the weights of correctly classified points decrease where wrongly classified points increase so that next model (weak learner) can pick up wrong ones Step:04 Normalized Weights Computation and Assigning Bins · You can see that the total sum of own updated weights 18 not I so we have to normalize it · Currently the total is 0-697 so we have to divide every weight with it to normal

Salary credit	Approval	updated weights	Normalized
	No	0.088	0.053-0.08
(-50K B)	Yes	0.058	0.08
-	Yes	0.058	0-08
10.	No	0-058	0.08
>50K B	Yes	0.058	0.08
Sol Gi	Yes	0.349	0.50
, 550K N	No	0.058	0.08
C=50K N	1 18 18 2 11 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T-1-0 1
Jerror/wronge	y		Tobal=1
Helich			Section 1
NAME OF TAXABLE		DE STATE OF	
	E FVAIRL	4 2 7 3 4	
	A PARTY		AVVO /
			VIII I
			BAIR .
	OB DE		
		HILD OF	DENOVE -
			California de la constantia della constantia della constantia della constantia della constantia della consta



The marked one were wrongly predicted:

What we did:

We selected random values

b/w o and 1 7 times see that

in which bucket that values

is coming and added that record.

B coming and added that record.

As bucket of wrongly predicted

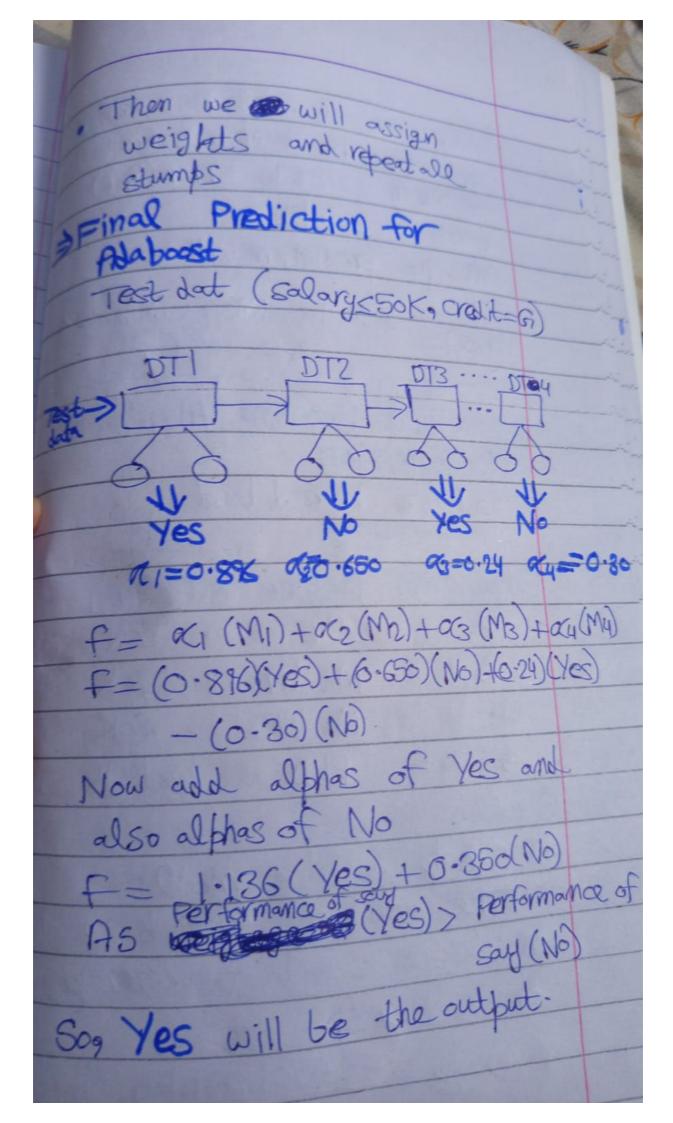
point is greater so it is

selected most of the time.

6tep.06

These records will be sent to next Decision Tree Stump

Solary	credit	Approval
<-50K	G	Yes
>50K	N	Yes
>50K	N	Yes
<=50K	G	Yes
>50K	B	NO
72°K	N	Yes



> In case of AdaBost Regression we select the stump on the basis of Mean Squared Error (MSE) instead of Entropy. And the prediction will be 1(x)= a(M)+a2 (M2)+a3(M3)+acq(M4) 0-102-103-100