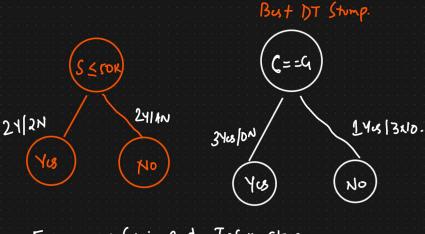
Adaboost Classifier -> Boosting Technique

Datque

Salary	Credit	Approval	SW
<=10K	В	N ₀	17
1=10x	G	Yes	1/7
L=80x	G	Yes	1 7
> DOK	В	No	7 1/ ₇
> Or	G	Yus	1/7
> 101	N	Yes	1/7
1-10K	N	No.	1/7

1) We create Decision Tree Strong and we select the but strong



Entropy or Gini and Information
gain

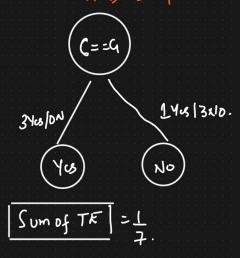
3) Sum of Total Errors And performance of shomp

Datque

Salary	Cocalit	Approval	SW
<=TOK	В	No	17
1=10x	G	Yes	1/7
L=80x	G	Yes	1 3
> DOK	В	No	1/7
> OK	4	Yes	1/7
> 70%	Ŋ	Yes	1/7
1-10K	N	No.	1/7

Performance of Shorp = 0.896

Bust DT Stump.



Operfrance of Shap =
$$\frac{1}{2} ln \left[\frac{1-TE}{TE} \right]$$

$$= \frac{1}{2} ln \left[\frac{1-1/2}{1/2} \right]$$

(1) Update the Weights for correctly and Incorrectly classified points.

Salary	Credit	Approval	SW	Upland weights	For lornetly
<=10K	В	N ₀	1 ↑	0.018	Clarified points
1=10x	G	Yes	/ ₁ ↓	820.0	- Performana of - Weight of e Soump
L=80x	4	Yes	_1 ↓	0.0(8	
> JOK	В	No	7	0.02.8	= 1 x e - (0.870)
> OK	G	Yus	/ ₇ ↓	0.058	= D.08
> mr	Ŋ	Yus	17 M	0.349	
1-20 K	Ν	No.	17-1	O-028	For Incorrut Classified points
					= height & e = \(\frac{1}{2} \times e^{(0.896)} \)

0.349

(5) Normalized Weights Computation And Assigning Bass

Salary	Cocdit	Approval	SW	Updard weights	Normalmed Wt	Bin Assignment
<=TOK	В	No.	4 √	0.018	0.013	0 - 0.08
1=50K	4	YUS .	/ ₇ ⊌	0.018	0.013	0.09 -0.16 60.0
(=80x	G	Yes	<u>1</u> ↓	0.0(8	0.013	0.16 - 0.24
> sok	В	No	7	D-02.8	0.013	0.24 - 0.32
> OK	4	Yes	/ ₃ ↓	0.058	0.083	0.32 - 0.40
> mr	Ŋ	Yus	1/7 M	0.349	0.500	-) 0.40 - O.90
1-20K	N	No.	Y 7 ↓	0.028	0.063	0.90 -0.96
				0.697	1.	

6 Sclear data points to the Next Shorp

Salary	Credit	Approval	Bin Assignment
<=TOK	В	No	0 - 0.08
1=10x	L	YUS	0.08 -0.10 -0
(=80x	4	Yes	0.16 -0.24
> sok	В	No	0.24 - 0.32
> OK	4	Yes	0.32 - 0.40
> 701	Ŋ	Yus	0.40 - 0.90
4-50K	N	No.	0.90 -0.96

1 Ilzration	Trocers	liching	random
Values			

Crutit	Appront	Random
11	Yus	0 -2 0
4	Yus	0.10
И	Yes	0.60
7	Yes	0.75
4	Yu	6.24
В	No.	0.32
н	Yes	0.83
	N	N Yus 4 Yus N Yus

Tut data (< rok, 4)

$$f = 0.896 (Yu) + 0.600(No) + 0.24 (Yu) - 0.30 (No)$$

$$= 1.136 (Yu) + 0.300 (No) = 0/p = Yu$$

$$Performance of Say(Yu) = 1.136$$

Purformance of Say (No) = 0.3170