Ada Boost : 2018 Spill

1. combines lot of weak learners

> RP could tooked this with

different DTS

meeterity voting from

Stump]

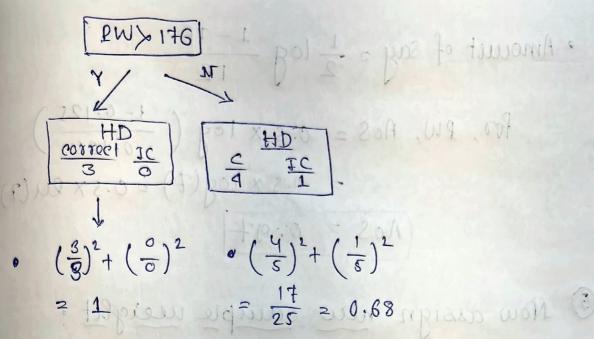
- 2. Some stumps have more-to-say in the final decision unlike RF.
- 3. Fach stump try to réduce prévious stumps mistake.

elassified data more times by increasing the meights of wrongly classified data.

steps!

- ① assign sample meight.

 say, n=8 initially, $w_i = \frac{1}{n}$ $w_i = 0.125$ n=8 now numbers
- © split by every attribute and calculate Gini Impurity & weighted GI.



· weight for y = 3 · weight for N = $\frac{5}{8}$

→ based on the lowest wGI, choose the attribute and split it.

3 Now calculate Total Error: # of rows misclassified by the attribute.

get misclassified.

There total orrer = 1 = 1

1) Now calculate amount of say for that

• Amount of Say
$$2\frac{1}{2}\log\frac{1-TE}{TE}$$

for, PW, Au8 = 0.5 x log $(\frac{1-0.125}{0.125})$

$$= 0.5 \times 10 \text{ (T)}$$
 $= 0.125.$
 $= 0.5 \times 10 \text{ (T)}$
 $= 0.5 \times 10 \text{ (T)}$

1 Now assign new sample meight:

a) for Misclassified:

· New SW = Old SW x R AOS

b) for correctly classified:

· New SW 2 Old SW X Q-AOS

and nomalize them;

0.07

0.07

6 Now assign range for each row:

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1 10,5000.77-10,8400

max midth.

- 1 And choose the row in which bin it falls.
 - max pin midth und have max exist probability to get picked up.

hew dateset.

8 Now repeat from step 2:

Les and make cu sample meights to agein = $\frac{1}{n}$

- -> can not nandle missing values by default.
- -> sensitive to outliers.

L> can have large impact on the meights in each iterations.

- 1 and choose the row in which bin it falls.
 - max pin midth und have max existing probability to get picked up.
 - hew dateset.
- 8 Now repeat from step 2:

Land make au sample meights to agein = 1