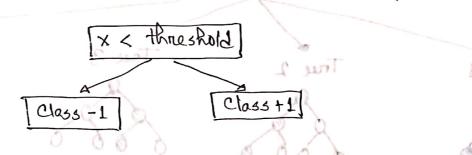
Adaboost 1 com mobra



In Weak Learner (Decision Stump) (DS== DT with only one split)



Ennon!

If error > 0.5, just flip the decision and the error = 1 - error

The Weights!

西 Performance!

$$\alpha = 0.5 \cdot \log \left(\frac{1 - \epsilon_t}{\epsilon_t} \right)$$

Mote: with low ennoy we will have a high positive value and high ennoy we will have high negative value.

In Prediction!

$$f = sign \left(\Sigma_{+}^{T} \alpha_{+} \cdot h(x) \right)$$

In Training!

Di Initialize weights for each sample - YN

for t in T:

- * Train weak classifier (greedy search to find best feature and
- « Calculate error == Σ weights
 - * Hip ennon and decision if ennon >0.5
 - * calculate d = 0.5. $log(\frac{1-\epsilon_t}{\epsilon_t})$
 - or update weights: w= w. exp (-d. h(x))