MISTAKE - BOUNDED LEARNING MODEL

Definition:

A learner is said to have mistake-bounded t if for every sequence of challenges, learner makes at most t mistakes

Example:

Criven j. hyporhesis class H contains all manatone disjunctions of n variobles In other words, H = 1 monotone disjunctions on a variables \int . Domain $X = \{0,1\}^n$

If n=3, examples of $h \in H$ is $h_1(x) = x_1 \vee x_2 \vee x_3$ $h_2(x) = x_1 \vee x_3$ $h_3(x) = x_2$...

2 examples of $x \in X$ is $x_1 = 0.00$ $x_2 = 0.00$

Let I be the target hypothesis, and the learner is trying to pick he H that as close to f as possible (learn f)

Mistake-bounded model says that the learner will make at most n mistakes before it learned t.