









Alien (learner) goal:

from data, learn

a "good" hypothesis rectangle R.









What can we say about R?

<u>Claim:</u> Vicwed as sets, $\widehat{R} \subseteq R.$













· small E70:

" E(R) small"=

 $\varepsilon(\hat{R}) \leq \varepsilon$

Goal: Show that if |S|=mis large enough, then $W.p. \ge 1-\delta$, $E(\hat{R}) \le E$.











= 2.





















Oh wait... what if e.g. P[R] < E/y?





