## PAC: Probability Approximately correct.

- The is a framework for the mathematical analysis of marking learning:
- > The goal of PAC: with high probability, the selected hypothesis will have believe when
- Starameters ... & & Sulley
  - ) with probability at deast (1-8), a system leven the ronept with work &.
  - E is upper bound on the wrong in anways is the hypothess with water than 4.

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> Auwray: 1- &.

> 8 guir the probability of fallure in arbitring that accuracy 8, (028 \le 1).

Confidence: 1-8 Eg: Huight & weight predict up! Win Futur -> Meduin height purson as weight with the fact wings height the happelless False - ++
Nugature - ++
Nugat

ed Errors as con to from Umor False pusitione Erws request p(C xor h)Z z & DAY JOA is di PAC: p(Errus (1) {4) 21-8 goal: · ii - p(p(c)h) 54) 21-8. Brox (E1) (E2).

Eg: 0.043 0.041 8-04 0.04 0.03 0.03 0.035 0.043 6.06 0.021 0-09 0 058 (0.06) 0.025 0.55 0,049. 0.045

0.025

0.013

0-005.

$$P(41) = 8/5 = 0.80.$$

$$p(H_2) = 7/10. = 0.70.$$

geal: P(Evins 61) 60) 21-6