

Inductive Bias

Some of the hypotheses are impossible to exist.

ex/

1	S	W	N	S	C	C	(+)
2	C	W	N	S	C	C	(+)
3	R	W	N	S	C	C	(-)

↳ sadece bu farklı,

eliminasyon

spec set $\rightarrow \{?, W, N, S, C, C\}$

↳ çok genel ve (-) i de kapsıyor.

An Unbiased Learner

↓
biased learner

Inductive Bias: Set of all assumptions made by an ML algorithm to perform induction.

↳ generalization

Inductive bias of candidate elimination: target concept c is contained in given hypothesis space H.

Role Learner: Store examples, classify x iff it matches previously observed example (training data)

Candidate elimination: Assumes target concept can be explained in hypothesis space.

Find-S: Assumes all instances are negative unless the opposite is given. (Data adası (+) örneği dişinda hepsi (-))

weakest
to
strongest
bias