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Find-S Algo.

i) Init. $h = h_0$ (most specific hypo.)

$$h = \langle \phi, \phi, \phi, \phi \rangle$$

ii) For each training ex.

a) if -ve, go to (ii)

else
for each attribute constraint in h'
if a_i satisfied by a
do nothing

else replace a_i with NEXT more general constraint

iii) Output final h'

{ Example Question → class }

Limitations:

i) Find-S doesn't consider -ve ex.

ii) No way to determine if more hypo. are consistent with given data.

iii) No possibility of Backtracking

Version Space - Subset of H
which is consistent with all training ex. in D

"Incremental Generalisation"

List then eliminate Algorithm

- i) Init Version space = hypo. space
- ii) eliminate h which are inconsistent

Limitation:

- "Go through all hypo. "in H " "
- Impossible for huge dataset
- Possible for small