

EXP NO: 01

DATE: 27/04/2023

FIND-S Algorithm

Aim:

To Implement and demonstrate the Find-S Algorithm for finding the most specific hypothesis based on a given set of training data samples.

Algorithm:

1. Import the dataset using `csv.reader()`
2. Find the total no. of attributes present in the dataset and initialize a variable with the same value.
3. Initialize an empty list to store the final hypothesis.
4. Implement the main algorithm -
 - if an instance is positive -
 - update the value of the attribute in the hypothesis.
 - if hypothesis's value == " ϕ " or current instance's value
 - hypothesis value \leftarrow current instance's value.
 - else
 - hypothesis's value \leftarrow '?'
 - if an instance is negative - ignore the instance
5. Display the hypothesis thus formed
6. END