

2) FIND S ALGORITHM:

Aim:

To implement the find s algorithm and find the most specific hypothesis that fits all the positive example of a given data set.

Algorithm:

Let h be the final hypothesis.

- i) Upload the data set.
- ii) Initialise h with the first positive example.
- iii) Now consider all the positive examples, if you come across a negative example, then skip and move to the next positive example.
- iv) Now check if each attribute in the example is equal to hypothesis value
- v) If the value matches, no changes are made.
- vi) If the value does not match, change it to '?'
- vii) Repeat steps 3-6 until the last positive example in the data set is reached.

2) CANDIDATE ELIMINATION ALGORITHM :

Aim :

To implement the candidate elimination algorithm and find the general and specific hypothesis that fits all the examples of a given data set.

Algorithm :

Let a be general hypothesis and s be specific hypothesis.

- i) Load the data set.
- ii) Initialise G and S .
- iii) For each training example check if it is negative or positive.
- iv) If it is positive example, then check if attribute value is equal to hypothesis value.
- v) If it is not equal, replace attribute value with '?'
- vi) If it is a negative example make G more specific.