Find-S Algorithm

By Harsh R - **1BG17CS031**

1. Program:

import csv

h = [['%', '%', '%','%','%','%']]

examples = []

with open('Training\_examples.csv') as csv\_file:

readcsv = csv.reader(csv\_file, delimiter = ',')

examples = list(readcsv)

print("The given training examples are: ")

for i in examples:

print(i)

print("The positive training examples are: ")

for i in examples:

if i[-1] == 'Yes':

print(i)

print("Steps of Find-S algorithm are: ")

print(h)

#initialise h to the most specific hypothesis

pos\_e = []

for i in examples:

if i[-1] == 'Yes':

pos\_e = examples[:-1]

for x in examples:

if x[-1] == 'Yes':

j = 0

h = examples[j]

print(h[:-1])

for i in range(0,6):

if h[i] != examples[j][i]:

h[i] = '?'

else:

j += 1

else:

continue

print(f"The most specific hypothesis: {h[:-1]}")

1. Output

