1BM19CS008

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FIND-S ALGORITHM

import pandas as pd

import numpy as np

data= pd.read\_csv('data.csv')

attributes= np.array(data)[:,:-1]

target= np.array(data)[:,-1]

print(data)

for i,value in enumerate(target):   #to get first hypothesis

  if value=="yes":

    hyp= attributes[i].copy()

    print("The specific hypothesis is ", hyp)

    break

for i, value in enumerate(attributes):

  if target[i]=="yes":

    for x in range(len(hyp)):

      if value[x]!= hyp[x]:

        hyp[x]='?'

        print(hyp)

      else:

        pass

print("hypothesis is ", hyp)

OUTPUT:

hypothesis is ['sunny' 'warm' '?' 'strong' '?' '?']

