|  |
| --- |
| import pandas as pd |
|  | import numpy as np |
|  |  |
|  | #to read the data in the csv file |
|  | data = pd.read\_csv("C:\\Users\\umk\\Desktop\\EVEN 2021\\LAB AI ML\\FIND-S.csv") |
|  | print(data,"n") |
|  |  |
|  | #making an array of all the attributes |
|  | d = np.array(data)[:,:-1] |
|  | print("n The attributes are: ",d) |
|  |  |
|  | #segragating the target that has positive and negative examples |
|  | target = np.array(data)[:,-1] |
|  | print("n The target is: ",target) |
|  |  |
|  | #training function to implement find-s algorithm |
|  | def train(c,t): |
|  | for i, val in enumerate(t): |
|  | if val == "Yes": |
|  | specific\_hypothesis = c[i].copy() |
|  | break |
|  |  |
|  | for i, val in enumerate(c): |
|  | if t[i] == "Yes": |
|  | for x in range(len(specific\_hypothesis)): |
|  | if val[x] != specific\_hypothesis[x]: |
|  | specific\_hypothesis[x] = '?' |
|  | else: |
|  | pass |
|  |  |
|  | return specific\_hypothesis |
|  |  |
|  | #obtaining the final hypothesis |
|  | print("n The final hypothesis is:",train(d,target)) |