BINDIYA C.M, 4MTITCS028

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```
Implement and demonstrate the FIND-s algorithm for
finding the most specific hypothesis based on
set of training data samply. Read the training data
from a · csv fele
from panday emport DotaFrome
dota = Data Frame . from _ CSV ('labl . csv')
column Length = data. Shape [1]
Drint (data)
h=['0'] * (column Length-1)
hn=[]
 for training Example in data values:
    if training Example [-1] != 'no':
      hp. append (list (training Example))
       hn. append (18st (training Example))
 for i in range (len (hp)):
   for j in lange (column Lingth - 1):
       h[j] = hp[i][j]
      if (h[]] = pp[][]):
 print ("In The positive hypother are: ", hp)
 print ("In The negative hypothesis are: ", hn)
 print (In The maximally specific hypothely is:
```

Output:

slono	Sky	ArrTemp	Humedry				
1	Sunny	warm	normal	strong	Harm	Same	401
2		warm		strong			
3	rang	cold	high	1			
		Warm	high	strong	cool	chongl chongl	443

The positive hypothese are:

```
[['sunny', 'warm', 'normal', 'strong', 'warm', 'same', 'yel'],
['sunny', 'warm', 'high', 'strong', 'warm', 'same', 'yel'],
['sunny', 'warm', 'high', 'strong', 'cool', 'change', 'yel']]
```

The negative hypothesis are:

The maximally specific hypothesis is:
['sunny', 'warm', '?', 'strong', '?', '?']

Dataset wed:

sl ono	sky	ArrTemp	Humidity	wind	woter	forecast	Engasport
1	Sunny	Warm	normal	strong		Same	O .
2	Sunny	Worm				Same	yes
		cold	high	strong	Warm		no
The second second		warm	high	strong	cool	change	yes