Expt. No	Page No
1 Implement and demonst.	pecific hyporthesis board or
a given set of touring	date sample. Read the.
training data from an	TILE.
Insport randors.	
1	1.5. 11.00
attabades = ([susny Pais.	[[cool] [serve]
'change'].	370
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prist (sus-attributes)	. —1 1 1 1 1
	sevel Lyportussis: [?!/?!?!
7,12,13][-"]
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	o' 6(710")
3=[].	
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Wyas cent	
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(coor) total	
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he ['a'] * nam-att	en butes.
toy of (n).	
for I la range (o, Me	madors brokes);
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for 10 is range (1 ks/s); If (ali)[sum attainedes] == ;7es); Any is range (xum attainedes): if (y) == or b) == ali); clot: bij = ali)[] Print ("10 the teading examples: 90] the hypothesis") for med (1+1), b)	Expt. No	Page No
for 10 is range (1 ks/s); If (ali)[sum attainedes] == ;7es); Any is range (xum attainedes): if (y) == or b) == ali); clot: bij = ali)[] Print ("10 the teading examples: 90] the hypothesis") for med (1+1), b)	-C7= -C3Cj	
if (arij[sum_attaludes] == .7ea); for j is rense (aum_attaludes); if (4jj =='o' or boj == arij(j)); bij = arij[j] else: Drist ("10 the trading examples: 90] the my potuesis") for met (141), b)		à
for j is range (sum attributes): if (4jj=2'o' or boj=2 a (i)(j)): boj = a[i][0] else: brist ("10 for training examples: 90] the mypothesis") format (1+1), b)	if (ati)[sum_ost niber	des] == , Yes);
if (4) == b or b) == a (i) (i)? Log = a [i] [i] else: bij > '?' Priot ("lo for threshing examples: 9 of the hypothesis") for mod (1+1), b)		/.
else: DIJ = 17' Priot ("10 for thraining examples: 90] the hypothesis") format (1+1), b)	if(41,7=26 or	-Cj==aCijCij):
else: Dij] = 17! Priort ("10 for travising examples: 90) the my pathesis") formal ()+1), b)	ラロフ= マロフロフ	*
Priort ("10 for trading examples: 904 the my pothesis") formed (1+1), b)		
Prior ("10 for Torading examples: 904 the hypothesis") for mod (1+1), b)		
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	hymothesis") for	and Cittle bo
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2	Sursy	was		closed			268
3	Raisy	cold.	blac.	strong.	mood	chance.	No
4.	Sussy	~~~~	high	Stoone	000	change	Les

- tuglero

[[strong: harry] ['nooms, 'cobi,], ['normal', 'sigh'],
['strong: 'weak'], ['nooms, 'cod'], ['same', 'change']

6.

the most general hyrothesis. ['?',?',?',?',?',?']

the most specific bypothods: [b', o', o', o', o']

The given training dataset

['sky, 'Ahrtense' Humidity', 'world, 'woder', foreast.

['swowl, 'como, 'borrod', 'strong, 'como, same, Yes]
[smowl, 'woom', 'which', 'strong, 'woon', 'same', Yes]
['Rain,' 'cold', 'thigh' 'strong, 'woon! 'chang, 'yes]
The Initial Lypothesis.

Epilolie, 6,101/01

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Expt. No	Page No
for training example: 90} ['sunsai, 'wooms', '?'stro	

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	for a give and of sent of
2 '	for a given set of set of training that example
1	atored is a . so file implement and demonstrate
1	the andidate-elimination abonitum to output a description of the set of all bypothests correspond
1	coits the toraining example.
1	sample.
1	Import esv
1	with open ('c: 11 users 11 Admis 11 Destrop WALBIS 11 albis (50))
	as f:
	con_file = csy. reader(+)
	data = lict (csv-file)
	print (data)
	S= data[i][:-i]
	8= C's' for i is vange (len(s)) for j is vange
	les (s)
	for i la data:
	if: [-1] == "res":
1	for j' is range (les (s)):
	14 IEIT = SEJJ:
1	s[i] = '?'
1	9[1][1]='7'
1	ent ip-1] == "No":
1	for j is range (kn(s)):
+	if i(j] = s(j]:
+	95iJCiJ = 8[i].
+	else:
	$-\Gamma$: $T\Gamma$: $T=\frac{100}{100}$

trist (1/2 steps of coodinate elimination algorithms 4 state index (1)+1)

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final specific by potresis

[sucon, moons, i, stong, i, nous]

fired general hypothesis.

Exp	pt. No3 Page No
1 .	the decision to the demonstrate the woodly of
-	the decision the decision.
+	appropriate data set for binding the decision. tree and apply this knowledge to closing a
+.	new semple
+	new zer y
+	l'uport pendas as pd.
+	Landas Import 1000.
+	df temmis = polinead-cov ('c' llucas 1/ Admin 11 Destop9
	Albin 11 play tennis (svi)
+	attribute names = listed + - terris. colums)
	attribute names. vamore ('play Tennis').
	private attoibude names.
	def cutos py-of-Ust (1et):
	boon collections i'm part counter.
	count = counter(xcfor x in 18t)
	sum 2 1'rotenes = len ((ct) M).
	probs = Exenum instances for a in count-udue
	setum entropy (probs).
	det antopy (probs):
	Import math
	oretur Sun([probx mate. bg (prob,2) for
	Fedora di dona
	Total entropy sentropy of het (df. fennist'
	play Tennis'I)
	det information gain (at, split-attribute-name,
	teaget - who but a - name, trace - or.
	of spride of group by Caprid attribute mand.
	nobs - leu (df-index)21.
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11 agg-ont column = 1'fe	(fercitorisado garq', unaste
old-entropy= entropy-	proposition is
print (sput_attribut nan	ne, ' 24:1, old entropy_res
metion old-entropy new det 183 (dt, tanget attr	ibute-nane, attoibute-
for collections impo count = counter(x for	ne): not counter: 2 10 def [tanget-attribut.
Pt len (count) == 1's	~*))
det df-ampty or (not overteen default-de	attribute-names);
else: default-class = max gais = [futamation	countiteps). gais (df. attr, teaget: or after is attributes
names) to	or after 19 with outer
index of max = gaving director = attractor drop = g best attr	· index (max cgain)) · de · nomes [judiex- of max] ; 927
remaining at M bub - now	Teacher's Signature:

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	7
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for agriculty and s	ubset is dt group by.
(best atts):	
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nam, remaining	attribute-names-default-
Olaes).	
three Thest attr Tratt	r-vall = subtree
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not to Make The res.	ultant decision tree is:
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	The second of th
	37
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bendput

['ordrook' 'temporeture ! Inamidity' 'world'].

out book 10= 0.2467498197744939) Temperature 14:0.029222565658954647. thumidity 19. 0.15183550136234136. What 19 + 0.048 (27030408 26907.

Ruperature 19: 0.019127309402194489, Humaity 19: 0.0199730400197489, wind In: 0,9209505 944546686.

Temposetese 24; 0:5+0959505944 546686, Hum di tog 14: 0.9709505966546686 who fu: 0.019973094402197489

The result of dection have is g'ontrook': g'overcast': 'Yes', 'Rain': { wind! ? stong , No; weals: Yes }}, 'suny': {'Humarty': 3' High': 'No! Normal' 1 yes for ?