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3.	conté à magnair 60 deanonstrate que
	working of one decision true based 103
	ayorione. use on appropriente dabasel
	for building the decesion three and apply
	this knowledge to classify a new
	sample.
->	inpost pandors as pd
	from randors copport Datatroane
	df- scans = pd. read - CSV ("Play Teans. CSV")
3	attribute-names = lest (df-tenner-columns)
	abtribute-names. venouse C'Play Tennis'?
	print (allocation - names)
	def entropy- of-cist-CCS+):
	from collections composit counter
	court = countre Cr for x in 186,
	nun-cirbances = (en(lst) * 1
	robe = [x/aun-cistances for
	x an courst. values ()]
	resum entropy (Nobs).
	def entropy (parobs):
	inport mater
	return cum CE-Mobs * mater. Log
	CNOB, 2) for Mos in Moss)]
	- Shuns

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	c'play Teanis')
	c'play Teanis')
	det enformation-gamed, sprit-attribute
	- name, tayet-attribute-name, trace=0)
	df-snit - df-groupby (snit-attribule-
	df-skit = df.groupby (skit-attrebule-
	nobs-leardf.cirdes)+1
	df-agg-car-df-spect agg (Evarget-attribute -
	name: terbropy-of-436, landda x: lines)
	1no65]5]
	df-agg-ent. columns = (Entropy 'propoblemation
	new-enong=sum/df.agg-enb C'enongy'] +
	df.ogg-enbl'proposerrabrons)
	old-entropy=entropy.of-usbCdf Changeb-
	abtiribult-name)]
	preho Capails-attractante name, 167:
	dd-enbropy-new enbropy)
	rebever old-entropy-new-entropy
	def de Colf, borgel-aktrebult-name,
	orticibeli-names, defoult-class=None):
	from collections carport counter
	court = counter cs for & in alf
	Trangel-alter berte name]
1	

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	if Cun (courab) == 1:
	neburn aest cette (counts)
	ell'f df. emply or cook attential names
	netern default-class
	else:
	defoult-class = wars (count. keys ()) goin = [
	gorin = [
	conformation-goin Colf, att, bayet
	- attribute-name) for attribute vanie
	chdes- of-nows = Joeh. index turas (gow)]
	best-outer = astribute-names Cenders-of-mass
	-
	tuce = 3 basb-att : EJG
	i' in attrebute-vames eff its best-atte]
	·
	for alleval, data-subset ch
	df.group by (best-ater):
	cut once = id3 calaba-subset, barget-
	abbrebuté-name, neurasneize attribute
	-names, défault-class)
	true (best-ablu) Cather val)-subtree
	neturn bree
As	rom aprent carport sporist
15	
	ARUN'S —

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	bree = c'ol3 (off-tearnis, 'Noy Tennes, activité							
#		- aan	45)			1)		
1	pourt C	"In The	nesu	esous	Dece	cion		
1	1	Torre a	3:1n	") Was 1		1		
	ppicer				7	3.49		
				A CONTRACTOR		5 mg =		
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	1, 41		0.5.	1011		31010		
	Y 77	, 2 %, % , 2		11.5.6		121120		
					< 1	diagram		
	p / 14 a 1		137.	12-1-1	215	Ar sign		
			37 5	de D.		Jano-		
			2	1) > ()		1556		
	0-1				1	A rope		
					75	Jagar.		
		3 PM 12.	2	N PA	21	30005		
			JA 3 -	13.41)	[6]	Layin		
				n dig				
		3			4			
		**						
_				100	The same			

output: Toublock', 'Tenperature', 'Harridity', 'wied')

out cook 19:0.2967498197794391 Teaperature 16:0.029922256565895-4647 Hurridity 16:0.15183550136239136 Wind 10:0.04812703090826927

Tuper ofune 19:0.01997309902197489 Humidity 19:0.01997309902197489 Would 19:0.9709505944596886

Temper above 10:0.5709505994596686 munidity-16:0.9709505944596686 wound 151:0.01997309902197489

The negalbourb Decesion Tone US:

['oublook': E'onemasts': 'Yes', 'Norm':

E'ward': E'strong': 'No', 'weak'

:Yes' 95,

'surry': E'tumidity: E'righ: 'No',

'Normal': Yes' 3335