1BM22CS241

SANJEET PRAJWAL PANDIT

Entropy and Information Gain for each feature:

Feature: Outlook | Entropy: 0.9403 | Information Gain: 0.2467

Feature: Temperature | Entropy: 0.9403 | Information Gain: 0.0292

Feature: Humidity | Entropy: 0.9403 | Information Gain: 0.1518

Feature: Wind | Entropy: 0.9403 | Information Gain: 0.0481

Decision Tree:

Outlook:

```
Sunny -> Humidity:

High -> No

Normal -> Yes

Overcast -> Yes

Rainy -> Wind:

Weak -> Yes

Strong -> No
```

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Information you'n: fgain: 4ff")

See a while there

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Tribulation for I so

	act point-tree (tree, indent-111).
	it gintance (tree, dict):
	the feature, branches in free items ():
	quent (+11 findent) (Harvey: 11)
	to falue, subtree in boanches, ikons():
	point (f" sinderty fraling >", end ="")
3 10	print tree (subtree, queent+" 11)
1 300	cope of the set (por series) and houself opposed (s)
	paint (+" findut of tree y")
	and the second s
100	taget = of (Decrition)
	features = (outlook, 'Temperature', 'Municipy', 'Winds
	print entropy and gain (of, features, treget)
-	THE SECOND SECON
	tree = bwid-tree (of, target, faherer)
	Bell of the same o
	print ("In Decrion Tree: ")
	pricat-tree (free, indint in ")
	output:
	Entropy and Information fain to soch feature.
	France: Owlook/Entropy: 0.9403/ Turbuniation Jain: 0.2467
	Frakue: Tenjurahur / tukopy: 0.9403/ Turbemation yain: 0.0292
	Features Municipy Europy: 0.9403 Information gain: 0.1578
	Feature: Wind [Eutopy: 0.9403) Information Jain: 0.0481
	Decision Tere:
	oukook:
	Junny-9 humidily:
	high > (Markey No)
	Malmal > Yes
	over (dit -) Yes
	Avily3/25 Rainy > weak > yes
	Smong > No