

	Raine: bays: (4, 5, 6, 10) Decisions: Yes, Yes, No, Yes
	Decisions: Yes, Yes, No, Yes
	becisions: Yes, Yes, No, Yes Bomi(Ram) = 1 - [(3/3 + (4)2)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-1-1-1-1-1
BANG PARTY	= 1- [9+1]
Secretary.	= 1 - 10
No. of the Control of	
5.0	$=\frac{6}{16}=0.875$
	$= \frac{6}{16} = 0.875$ $= \frac{6}{16} = 0.875$ $= 0.125$ $= 0.125$
	<u>。这种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种</u>
· ·	
Name of the second	5mi gan = 0.34-0.325
	200-1194 100-1194
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gimi for bonne ating a 0.076
	Gini for turnstity = 0.0555
	-; Outlook best most split.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
b ,	
	8
	•

0 = Bild dree 1. Overcast Branch 1 Days 3,7,12 -> all yes -> pure leaf = yes. 19 19 2. Sunny Branch
Days 1, 2,8,9,11 -> decisions (No, No, No, Yes, Yes). 19 19 · Humidity: 19 · High -> Days 1, 2, 8 -> all No -> leaf = No. 7 . Normal -> Days 9,11 -> both yes -> leaf = 7cs. 19 F 3. Ran branch day 4,5,6,10 -> de cisims: (Yes, Yes, No, Yes) Mag - weak -> Days 9,5,10 -> all yes->/eaf = Yes · strong -> Day 6 -> No -> leaf = No Outlook Sumy Overcast Ram

/ Yes (hind) (Humidaly) High Normal Yes No No Yes 1. Sunny Mild, High, Storing, No 2. Ran, Hot, Normal, Strong, No 3. Overcato, Mild, Normal, Weak, Yes

```
Running Naive Bayes classifier on the iris dataset...
Training data: 100 samples with 4 features
Prior probabilities:
 P(C+): 0.34
 P(C-): 0.66
 True Positives: 16
 False Positives: 1
 True Negatives: 33
 False Negatives: 0
 Accuracy: 0.98
  Precision: 0.9411764705882353
  Recall: 1.0
PS C:\Users\nrndb\OneDrive\Desktop\CMPSC 445\Assignments\HW 4> python HW4.py buy
Running Naive Bayes classifier on the buy dataset...
Training data: 14 samples with 4 features
Prior probabilities:
  P(C+): 0.6428571428571429
 P(C-): 0.35714285714285715
  True Positives: 2
  False Positives: 1
 True Negatives: 1
  False Negatives: 0
 Accuracy: 0.75
  Precision: 0.66666666666666666
  Recall: 1.0
```