

MACHINE LEARNING LAB-2 OUTPUTS

Dataset:

tennis.csv X				
1 to 14 of 14 entries Filter				
outlook	temp	humidity	windy	play
sunny	hot	high	false	no
sunny	hot	high	true	no
overcast	hot	high	false	yes
rainy	mild	high	false	yes
rainy	cool	normal	false	yes
rainy	cool	normal	true	no
overcast	cool	normal	true	yes
sunny	mild	high	false	no
sunny	cool	normal	false	yes
rainy	mild	normal	false	yes
sunny	mild	normal	true	yes
overcast	mild	high	true	yes
overcast	hot	normal	false	yes
rainy	mild	high	true	no

Outputs:

```
⇒ outlook
  └─ sunny
      humidity
        └─ high
            → no
        └─ normal
            → yes
  └─ overcast
      → yes
  └─ rainy
      windy
        └─ False
            → yes
        └─ True
            → no
```

First 5 rows of the dataset:

	outlook	temp	humidity	windy	play
0	sunny	hot	high	False	no
1	sunny	hot	high	True	no
2	overcast	hot	high	False	yes
3	rainy	mild	high	False	yes
4	rainy	cool	normal	False	yes

Accuracy: 100.00%

Predicted class for the new sample: no

/usr/local/lib/python3.11/dist-packages/sklearn/utils/validation.py:2739: UserWarning: X does not have valid feature names, but DecisionTreeClassifier was fitted with
warnings.warn()

Decision Tree for Weather Data

