



Name :	Well	a. S	
Subject: .	DL		
Std.:	Sec. :	Roll No	
School:			

No.	Date	Title	Marks	Signature
1	24/7/25	Exploring the DI	e	1
2	31/7/25	Implement a donifier		
		using open source detail		
3	7/8/25	Study the Christian	7 =	Adria
		with respect to.		1 10101
		Statistical parameters.		
			, (Ar 104) 2	
	0			Marian Marian
7 13 1				
				in the second

Aim:

Tree aposition.

bolls pullward

objective:

\* condorstand & apply Decision Trace
Classification on the Iris, dataset.

\* preprocess the detaset & split it

into training a testing sets.

performance using according metrics.

+ 3nterprot the redults a observation from the model.

Lource code:

from sklown, has emport Deusian salar from sklown, has emport Deusian machies for more dusifier from sklown, has emport Deusian machies for suport deusidier machies emport deusidier machies emport deusian machies emport deusian machies emport accuracy-score from sklown, metrics emport accuracy-score

Pris = ladinis

x = inis. data

Y = iris. target

to lead the Iris datesol.

I spart date into train a test

x-train, x-test, y-test, y-test = train-test-split

(x, y, test size 202, vondomgtite = 42)

all = Decision reallossifier (vadom stak = 4)

cold = Decision reallossifier (vadom stak = 4)

cold = bit (x-wain, y-train)

y-prod = clf. prodict (x-tost)

accuracy = accuracy-scand y-test, y-prod)

print (f"Decision tree accuracy on Iris

dotaset: facuracy\*100.2637.

eppenation;

In Devision Trace classifier successfully sound patterns from successfully sound patterns from the training data & accordioly special of Iris flamons on the test date.

\* The model actioned a high accuracy about the dataset is well and about is well suited for decision here doubtention.

+ The simplicity of the iris datosot & closer separation among classes contribute to the high performance of the model. \* The use of radom state owned reproducible nowall be consistent evaluation. Accuracy : 100 hards biensia : 1.00 Recall 100 1008 F1. Score : 1.00 andred 2 224 2 99 posult: dualy andersel the Iris debut with the hole of the Decision mee clasifier.





