

Experiment 7

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Branch: CSE

Semester: 5th

Subject Name: Machine Learning Lab

UID: 20BCS1812

Section/Group: 20BCS_WM-702A

Date of Performance: 26/10/2022

Subject Code: 20CSP-317

Aim/Overview of the practical:

Implement Decision Tree on any dataset.

Task to be done:

To implement Decision Tree on any data set.

Apparatus/Simulator Used:

- Google Collab
- Python
- .csv file

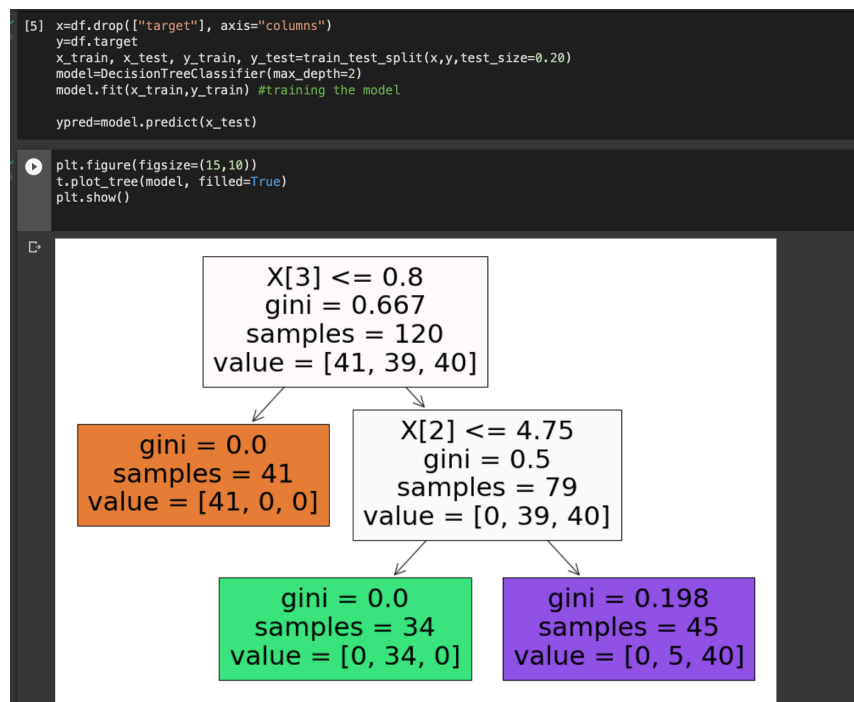
Code and Output:

```
[1] import pandas as pd
    from sklearn.datasets import load_iris
    from sklearn.model_selection import train_test_split
    from sklearn.tree import DecisionTreeClassifier
    from sklearn.metrics import classification_report
    from sklearn import tree as t
    import matplotlib.pyplot as plt
    %matplotlib inline

iris=load_iris()
dir(iris)

['DESCR',
 'data',
 'data_module',
 'feature_names',
 'filename',
 'frame',
 'target',
 'target_names']

[3] df=pd.DataFrame(iris.data, columns=iris.feature_names)
    df["target"]=iris.target
```



Learning outcomes (What I have learnt):

- 1. Learnt how to implement Decision Tree.**
- 2. Learnt about numpy, seaborn, pandas libraries.**
- 3. Learnt how to analyse using Decision Tree.**

Evaluation Grid :

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Student Performance (Conduct of experiment) objectives/Outcomes.		12
2.	Viva Voce		10
3.	Submission of Work Sheet (Record)		8
	Total		30