

## BY SANA TALYARKHAN TADVI

**TASK- • Create the Decision Tree classifier and visualize it graphically**

```
In [47]: #UPLOAD THE DATASET

iris = datasets.load_iris()
print("Iris dataset loaded successfully")
```

Iris dataset loaded successfully

```
In [48]: Iris = pd.DataFrame(iris.data, columns = iris.feature_names)
print(Iris.head(15))

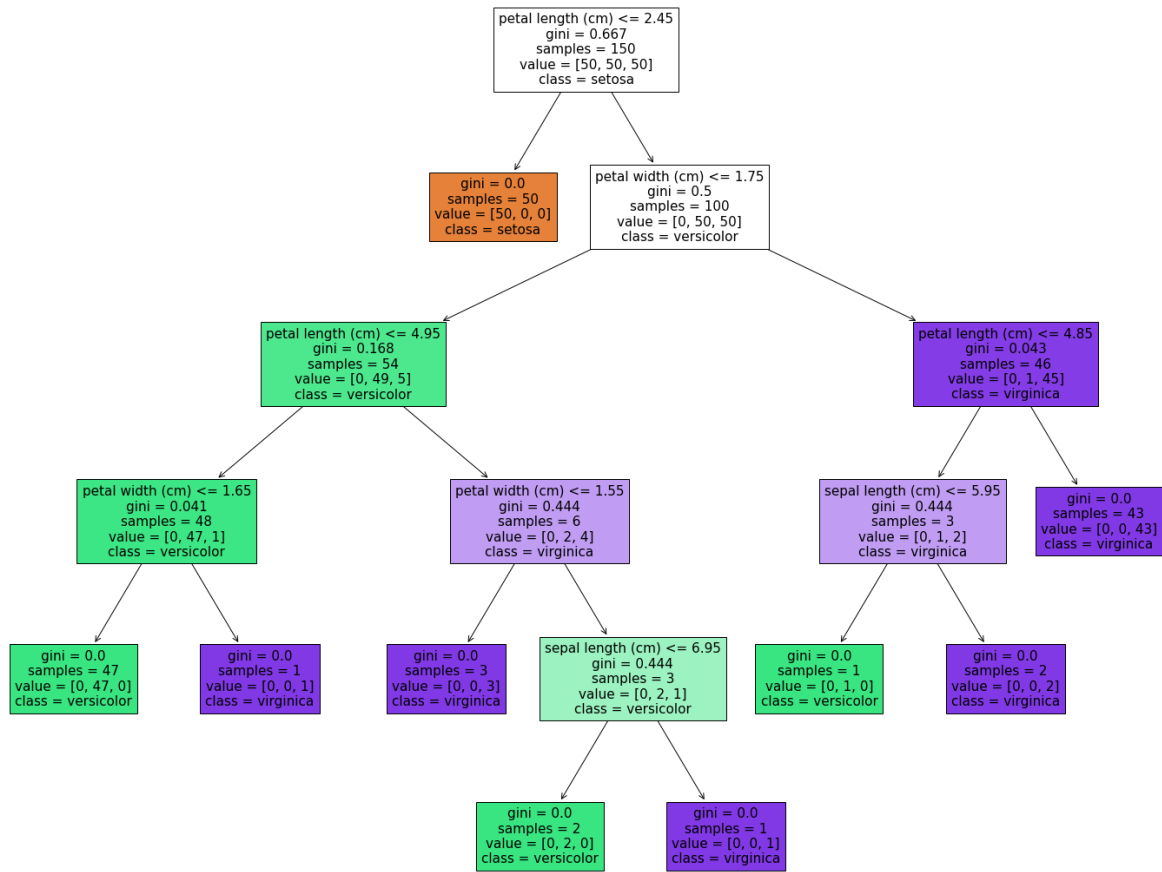
y=iris.target

print(y)
```

```
In [53]: # Defining Decision Tree Algorithm
clf = DecisionTreeClassifier()
clf.fit(Iris,y)
```

```
Out[53]: DecisionTreeClassifier()
```

```
In [52]: #PLOT WITH PLOT_TREE (it allows us to easily produce figure of the tree)
fig = plt.figure(figsize=(25,20))
_ = tree.plot_tree(clf,feature_names=iris.feature_names,
                  class_names=iris.target_names,
                  filled=True)
```



\_\_ END \_\_

In [ ]: