## sl-decision-tree-algorithm-1

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## 0.1 project title

prediction of iris.csv data set for decision tree algorithm using supervise learning machine algorithm

## 0.2 problem statment

A american based botanical garden gow iris flower in their labs but using bio technology in a single tree different type variety flower is grow.

As a data science enginner find out how much accuracy is their all categorie contains same species

```
[]: from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy_score
```

```
[]: # Load the Iris dataset
iris = load_iris()
X = iris.data
y = iris.target
```

```
[]: # Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, □
□random_state=42)
```

```
[]:  # Create a Decision Tree classifier
decision_tree = DecisionTreeClassifier()
```

```
[]: # Train the classifier on the training data decision_tree.fit(X_train, y_train)
```

## [ ]: DecisionTreeClassifier()