sl-decision-tree-algorithm-1

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#Project Title: ##Prediction of "Iris.csv" dataset for decision tree algorithm using Supervised Learning Machine algorithm

#Problem Statement: ##A american based botnical garden a grow iris flower in their labs but using Bio-Technology in a single tree different type of varity flower is grow as a data science engineer find out how much accuracy is their all categories contain same species.

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[1]: 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
```

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

- [4]: # Create a Decision Tree classifier
 decision_tree = DecisionTreeClassifier()
- [5]: # Train the classifier on the training data decision_tree.fit(X_train, y_train)
- [5]: DecisionTreeClassifier()
- [6]: # Make predictions on the test data
 y_pred = decision_tree.predict(X_test)
- [8]: # Calculate accuracy
 accuracy = accuracy_score(y_test, y_pred)
 print(f"Accuracy: {accuracy:.2f}")

Accuracy: 1.00

 $\#\mathbf{Conclusion}\text{: }\#\#\mathbf{According}$ to my model only 1 percent is accuracy for getting all species.

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