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Project Title : Predicton of "**iris.csv**" dataset for dicision tree algorithm using supervise learning machine algorithm

problem statement: A American based botnical garden grow iris flower in ther lab but using bio technology in a singal tree differnt type of variety flower is grow as datascience engineer find out how much aaccuracy is ther all categeries contain same specias.

```
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()

# Make predictions on the test data
y_pred = decision_tree.predict(X_test)

# Calculate accuracy
accuracy = accuracy_score(y_test, y_pred)
print(f"Accuracy: {accuracy:.2f}")

Accuracy: 1.00
```

Conclusion: According to my model there is only 1% accuracy for getting all species