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# Import scikit-learn dataset library
from sklearn import datasets

# Load dataset
iris = datasets.load_iris()

# Print the label species (setosa, versicolor, virginica)
print(iris.target_names)

# Print the names of the four features
print(iris.feature_names)

# Print the iris data (top 5 records)
print(iris.data[0:5])

# Print the iris labels (0:setosa, 1:versicolor, 2:virginica)
print(iris.target)

# Creating a DataFrame of the given iris dataset
import pandas as pd

data = pd.DataFrame({
    'sepal length': iris.data[:, 0],
    'sepal width': iris.data[:, 1],
    'petal length': iris.data[:, 2],
    'petal width': iris.data[:, 3],
    'species': iris.target
})

# Print the first few rows of the DataFrame
print(data.head())

# Import train_test_split function
from sklearn.model_selection import train_test_split

# Features and labels
X = data[['sepal length', 'sepal width', 'petal length', 'petal width']] # Features
y = data['species'] # Labels

# Split dataset into training set and test set
X_train, X_test, y_train, y_test = train_test_split(X, y,
test_size=0.3) # 70% training and 30% test

# Import Random Forest Model
from sklearn.ensemble import RandomForestClassifier

# Create a RandomForestClassifier
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