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In [1]: # importing required libraries
         # importing Scikit-learn library and datasets package
         from sklearn import datasets
         # Loading the iris plants dataset (classification)
         iris = datasets.load_iris()
In [3]: print(iris.feature_names)
         ['sepal length (cm)', 'sepal width (cm)', 'petal length (cm)', 'petal width (cm)']
 In [4]: # dividing the datasets into two parts i.e. training datasets and test datasets
         X, y = datasets.load_iris( return_X_y = True)
         # Spliting arrays or matrices into random train and test subsets
         from sklearn.model selection import train test split
         # i.e. 70 % training dataset and 30 % test datasets
         X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.30)
In [8]: # importing random forest classifier from assemble module
         # importing random forest classifier from assemble module
         from sklearn.ensemble import RandomForestClassifier
         import pandas as pd
         # creating dataframe of IRIS dataset
         data = pd.DataFrame({'sepal length': iris.data[:, 0],'sepal width': iris.data[:, 1]
 In [9]: # printing the top 5 datasets in iris dataset
         print(data.head())
            sepal length sepal width petal length petal width species
                     5.1
                                  3.5
                                                1.4
                                                             0.2
                                                             0.2
         1
                     4.9
                                  3.0
                                                1.4
                                                                        0
         2
                     4.7
                                  3.2
                                                1.3
                                                            0.2
                                                                        0
         3
                     4.6
                                 3.1
                                                1.5
                                                            0.2
                                                                        0
                     5.0
                                                             0.2
                                  3.6
                                                1.4
                                                                        0
In [10]: # creating a RF classifier
         clf = RandomForestClassifier(n_estimators = 100)
         # Training the model on the training dataset
         # fit function is used to train the model using the training sets as parameters
         clf.fit(X_train, y_train)
         # performing predictions on the test dataset
         y_pred = clf.predict(X_test)
         # metrics are used to find accuracy or error
         from sklearn import metrics
         print()
         # using metrics module for accuracy calculation
         print("ACCURACY OF THE MODEL: ", metrics.accuracy_score(y_test, y_pred))
```