from sklearn.datasets import load_iris
iris = load_iris()
dir(iris)

['DESCR', 'data', 'feature_names', 'filename', 'target', 'target_names']

import pandas as pd
df = pd.DataFrame(iris.data, columns=iris.feature_names)
df.head()

	sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)
0	5.1	3.5	1.4	0.2
1	4.9	3.0	1.4	0.2
2	4.7	3.2	1.3	0.2
3	4.6	3.1	1.5	0.2
4	5.0	3.6	1.4	0.2

df['target'] = iris.target
df.head()

	sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)	target
0	5.1	3.5	1.4	0.2	0
1	4.9	3.0	1.4	0.2	0
2	4.7	3.2	1.3	0.2	0
3	4.6	3.1	1.5	0.2	0
4	5.0	3.6	1.4	0.2	0

from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(df.drop(['target'],axis='columns'),iris.t

from sklearn.ensemble import RandomForestClassifier
model = RandomForestClassifier()
model.fit(X_train, y_train)

min_weight_fraction_leaf=0.0, n_estimators=100,
n_jobs=None, oob_score=False, random_state=None,
verbose=0, warm_start=False)

model = RandomForestClassifier(n_estimators=40)
model.fit(X_train, y_train)
model.score(X_test,y_test)

0.9333333333333333

✓ 0s completed at 11:03

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