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In [1]: import numpy as np
import pandas as pd
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In [2]: url = "https://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data"
names = ['sepal-length', 'sepal-width', 'petal-length', 'petal-width', 'Class']
dataset = pd.read_csv(url, names=names)
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In [3]: X = dataset.iloc[:, 0:4].values
y = dataset.iloc[:, 4].values
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In [4]: from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random
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In [5]: from sklearn.preprocessing import StandardScaler

sc = StandardScaler()
X_train = sc.fit_transform(X_train)
X_test = sc.transform(X_test)
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In [6]: from sklearn.discriminant_analysis import LinearDiscriminantAnalysis as LDA

lda = LDA(n_components=1)
X_train = lda.fit_transform(X_train, y_train)
X_test = lda.transform(X_test)
```

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In [7]: from sklearn.ensemble import RandomForestClassifier

classifier = RandomForestClassifier(max_depth=2, random_state=0)

classifier.fit(X_train, y_train)
y_pred = classifier.predict(X_test)
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In [8]: from sklearn.metrics import confusion_matrix
from sklearn.metrics import accuracy_score

cm = confusion_matrix(y_test, y_pred)
print(cm)
print('Accuracy' + str(accuracy_score(y_test, y_pred)))

[[11  0  0]
 [ 0 13  0]
 [ 0  0  6]]
Accuracy1.0
```

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In [ ]:
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In []: