from sklearn.datasets import load\_iris

from sklearn.model\_selection import train\_test\_split

from sklearn.neural\_network import MLPClassifier

from sklearn.metrics import accuracy\_score

# Load dataset

iris = load\_iris()

X = iris.data

y = iris.target

# Split dataset into training and test sets

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.3, random\_state=42)

# Create and train the feedforward neural network

clf = MLPClassifier(hidden\_layer\_sizes=(10,), max\_iter=1000, random\_state=42)

clf.fit(X\_train, y\_train)

# Predict and evaluate the model

y\_pred = clf.predict(X\_test)

accuracy = accuracy\_score(y\_test, y\_pred)

print(f"Accuracy: {accuracy:.2f}")