# Import necessary libraries

import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

from sklearn.svm import SVC

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

from sklearn.metrics import accuracy\_score

# Load your dataset from a local file (e.g., CSV)

# Replace 'your\_dataset.csv' with the actual path to your dataset file

data = pd.read\_csv('Iris.csv')

# Assuming the target variable is in a column named 'target'

X = data.drop('target', axis=1)

y = data['target']

# Split the dataset into a training set and a testing set

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.2, random\_state=42)

# Create an SVM classifier

svm\_classifier = SVC(kernel='linear') # You can choose different kernels here

# Fit the classifier to the training data

svm\_classifier.fit(X\_train, y\_train)

# Make predictions on the test data

y\_pred = svm\_classifier.predict(X\_test)

# Calculate the accuracy of the model

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

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