import numpy as np

from sklearn.metrics import confusion\_matrix, accuracy\_score, classification\_report

import matplotlib.pyplot as plt

import seaborn as sns

def evaluate(y\_true, y\_pred, model\_name):

cm = confusion\_matrix(y\_true, y\_pred)

acc = accuracy\_score(y\_true, y\_pred)

print(f"\n{model\_name} Accuracy: {acc:.2f}")

print(classification\_report(y\_true, y\_pred))

sns.heatmap(cm, annot=True, fmt='d', cmap='viridis')

plt.title(f'{model\_name} - Confusion Matrix')

plt.xlabel('Predicted')

plt.ylabel('True')

plt.show()