import cv2

import numpy as np

import matplotlib.pyplot as plt

from PIL import Image

image\_path = '/content/pexels-optical-chemist-340351297-31921731.jpg'

image = Image.open(image\_path).convert('L')

image\_np = np.array(image)

edges = cv2.Canny(image\_np, threshold1=100, threshold2=200)

plt.figure(figsize=(10, 5))

plt.subplot(1, 2, 1)

plt.imshow(image\_np, cmap='gray')

plt.title('Original Image')

plt.axis('off')

plt.subplot(1, 2, 2)

plt.imshow(edges, cmap='gray')

plt.title('Canny Edge Detection')

plt.axis('off')

plt.show()