import cv2

import numpy as np

import matplotlib.pyplot as plt

# Load the image

image\_path = "5.png"

image = cv2.imread(image\_path)

# Convert image to grayscale

gray\_image = cv2.cvtColor(image, cv2.COLOR\_BGR2GRAY)

# Define a kernel for erosion

kernel = np.ones((5, 5), np.uint8)

# Apply erosion

eroded\_image = cv2.erode(gray\_image, kernel, iterations=1)

# Display original and eroded images

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

plt.subplot(1, 2, 1)

plt.title("Original Grayscale")

plt.imshow(gray\_image, cmap='gray')

plt.axis('off')

plt.subplot(1, 2, 2)

plt.title("Eroded Image")

plt.imshow(eroded\_image, cmap='gray')

plt.axis('off')

plt.tight\_layout()

plt.show()

output: