

User Guide

This guide explains how to use each component of the Image Processing & Edge Detection App.

1 Load an Image

- > Click **Load Image**
- > Choose a file from your PC
- > The image appears in the left panel

2 Apply Filters

1. Select **Filter Type**:

- Low Pass
- High Pass
- Gaussian
- Median

2. Choose **Kernel Size**:

- 3×3
- 5×5
- 7×7

3. Click **Apply Filter**

The filtered output appears on the right panel.

3 Edge Detection

1. Select method:

- Sobel
- Prewitt

- Canny

- Roberts

2. Adjust **Threshold Slider**

3. Click **Apply Edge Detection**

4 Save Output

- >Click **Save Image**

- >Choose destination & filename

5 Reset App

Restores the original image and clears all processing.

Tips :-

- > Use small kernel sizes for sharper details

- >Use Canny for best edge accuracy

- >High Pass filter enhances edges before edge detection