

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