COMPUTER VISION LAB-1

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AIM

- To obtain the histogram equalization of colored and grayscale image. The objective is to understand the image histogram and understand how it can be useful.
- To Implement Program for Image Filtering using:
    - Butterworth low pass filter, Gaussian Low Pass filter, Mean Filter, Median Filter, Sobel-Prewitt Filter
    - Butterworth high pass filter, Gaussian High Pass filter
    - Laplacian Filter

RESULTS

1. To obtain histogram equalization of color and grayscale image.
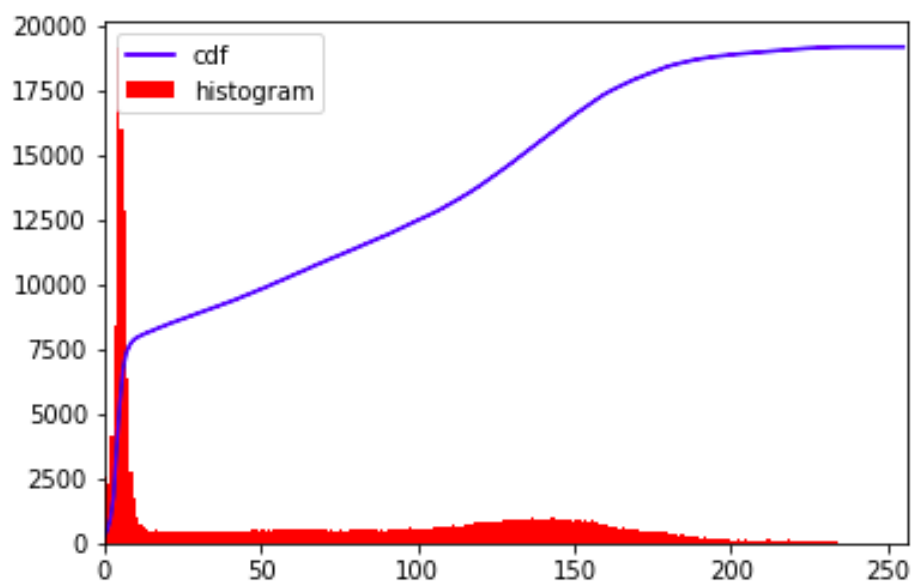
Histogram of Gray Scale Image
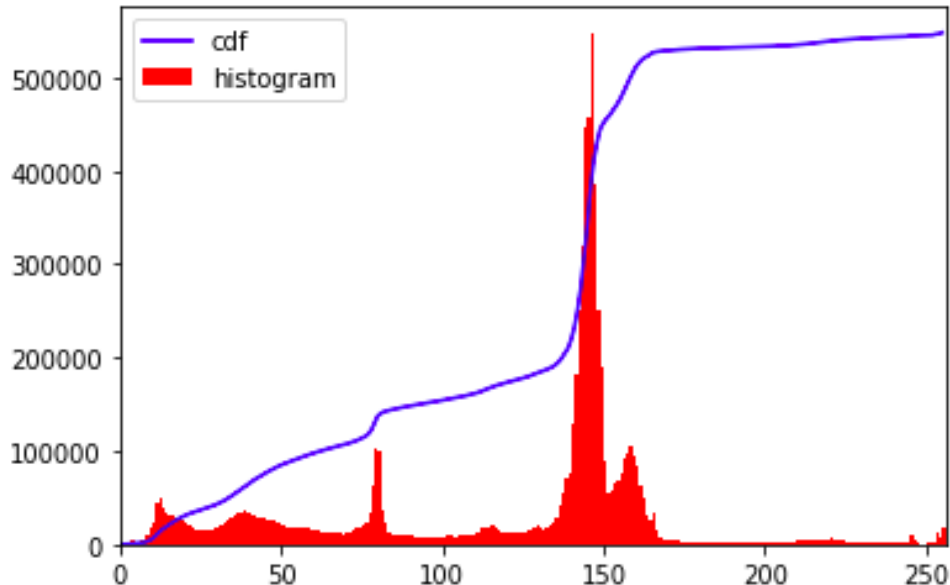
Grayscale Input Image

Equalized Image

Histogram of Colored Image

Colored Input Image

Equalized Image

2. To Implement Program for Image Filtering using:

2.1 Gaussian Low Pass filter

2.2 Mean Filter

2.1 Median Filter

2.1 Sobel-Prewitt Filter

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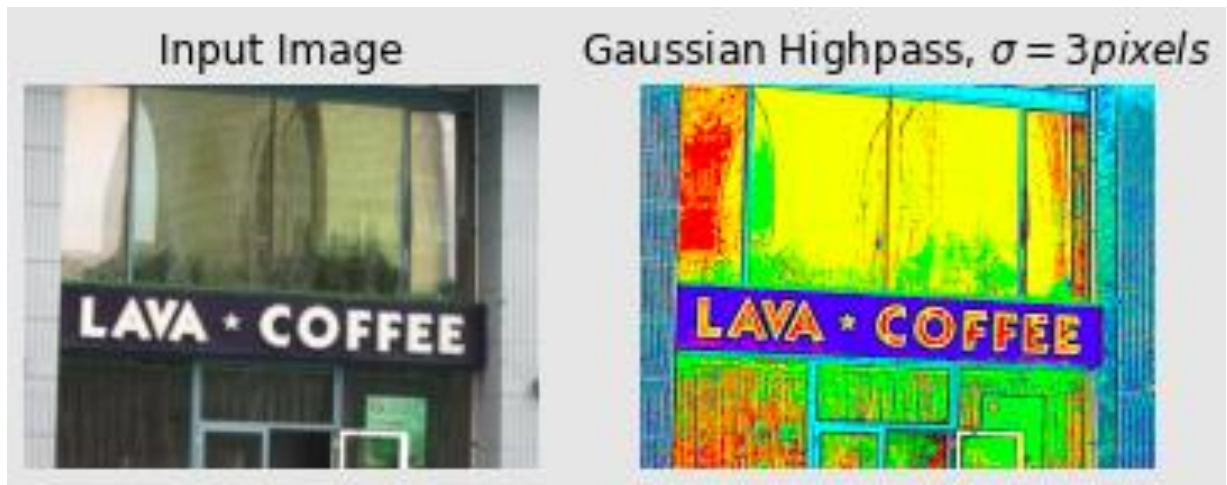
2.2 Gaussian High Pass filter

2.3 Laplacian Filter