

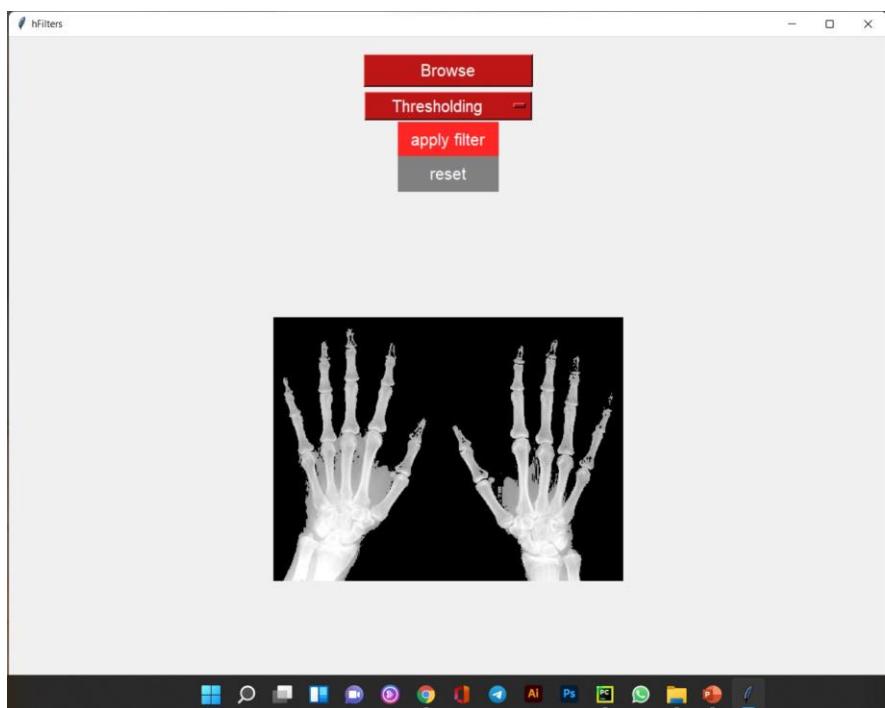
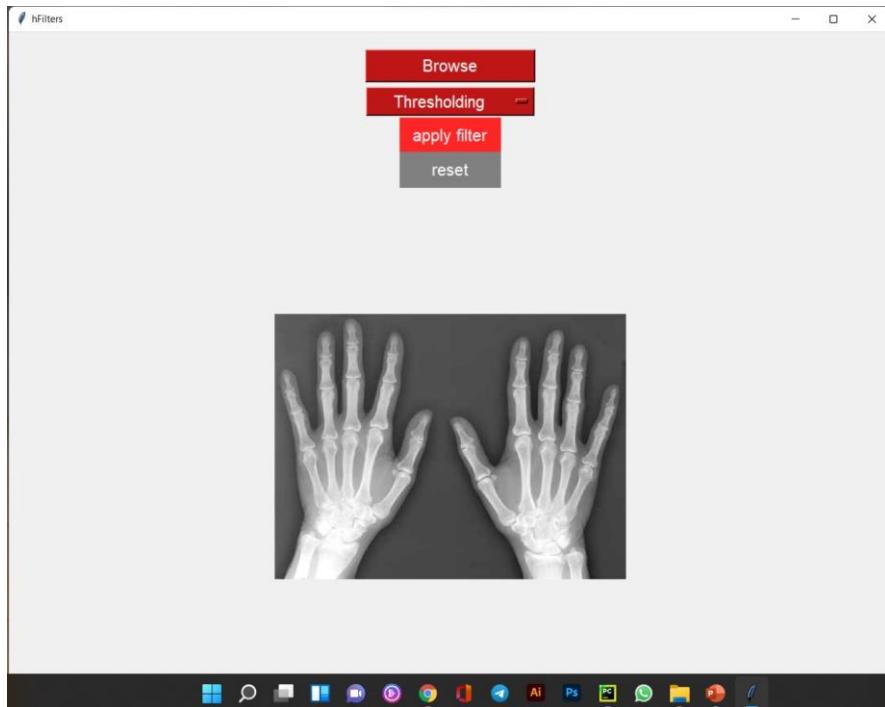
**The goal of using filters is
to modify or enhance
image properties and/or to
extract valuable
information**

- **Image enhancement
can be done through
gray level
transformations.**

Image processing filters with python

Thresholding

we use thresholding as a way to select areas of interest of an image, while ignoring the parts we are not concerned with

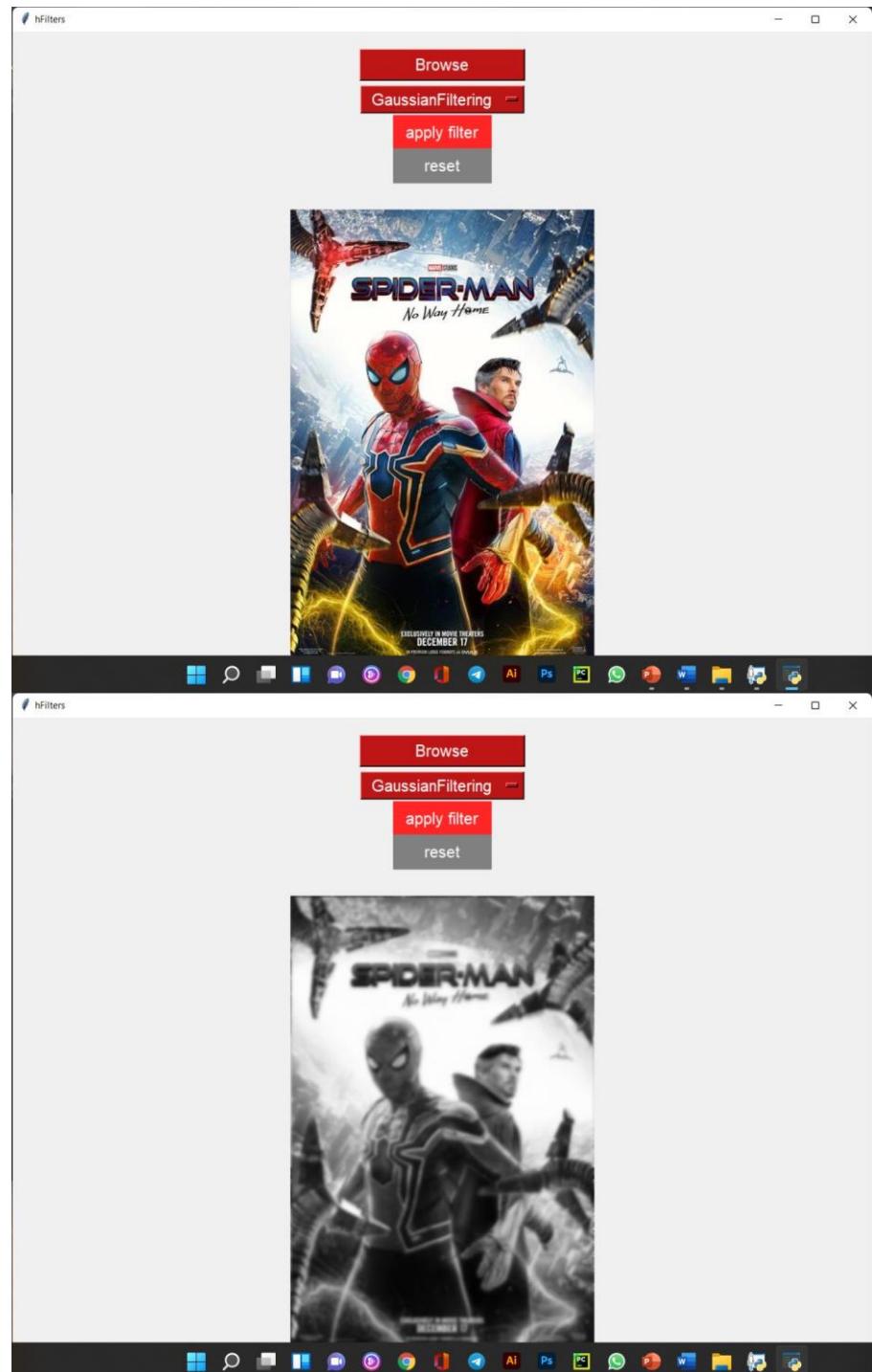


- **Linear filtering**

is the filtering method in which the value of output pixel is linear combinations of the neighbouring input pixels.

Ex : Gaussian filter

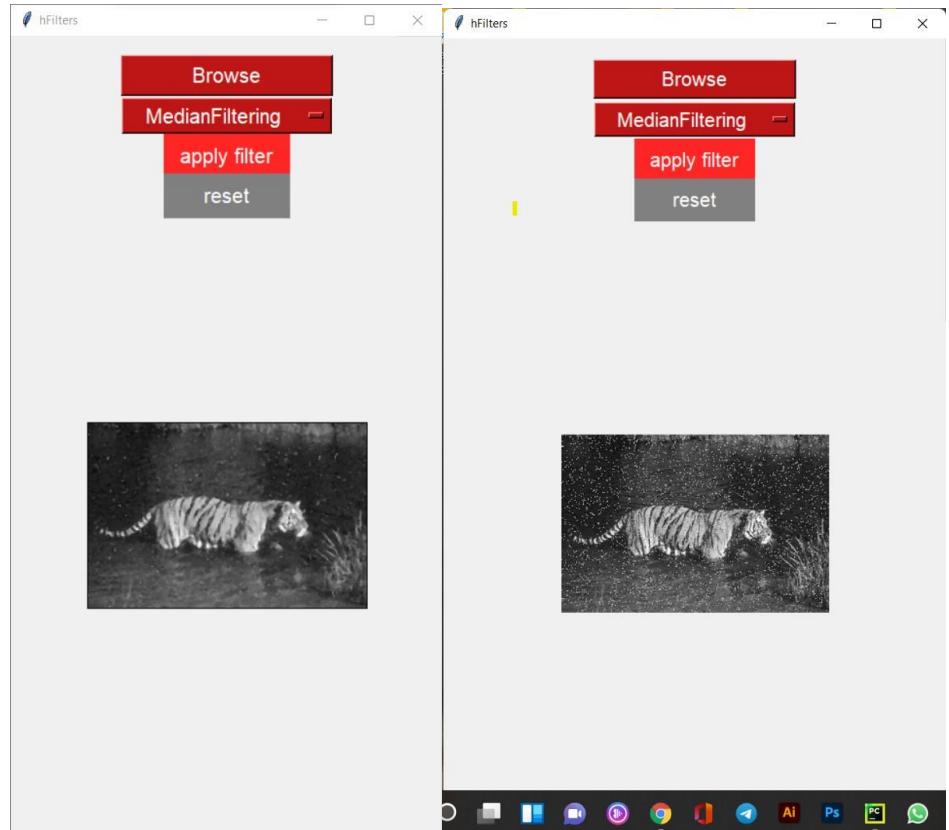
- Gaussian smoothing operator is used to 'blur' images and remove detail and noise



- A non-linear filtering

Ex: Median filter

is useful in reducing impulsive, or salt-and-pepper noise (black and white dots)



- gray level transformations.
- Linear

Negative

negative transformation, which is invert of identity transformation. In negative transformation, each value of the input image is subtracted from the L-1 and mapped onto the output image

