



CLASS : T.E.08 E&TE

SUBJECT: DIP

Roll No :

EXPT. NO. : Virtual lab 2

DATE :

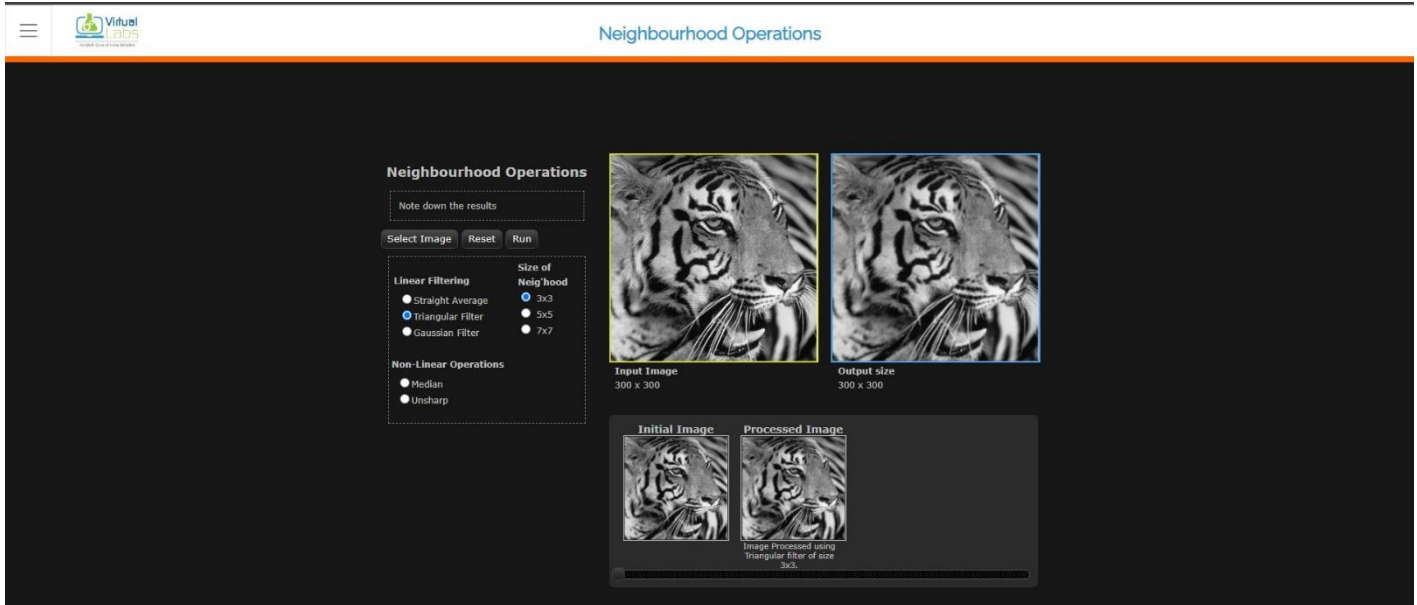
TITLE : USE VIRTUAL LAB AND PERFORM NEIGHBOURHOOD OPERATION

(Link of virtual lab: <https://www.vlab.co.in/participating-institute-iiit-hyderabad>)

1) Linear Filtering

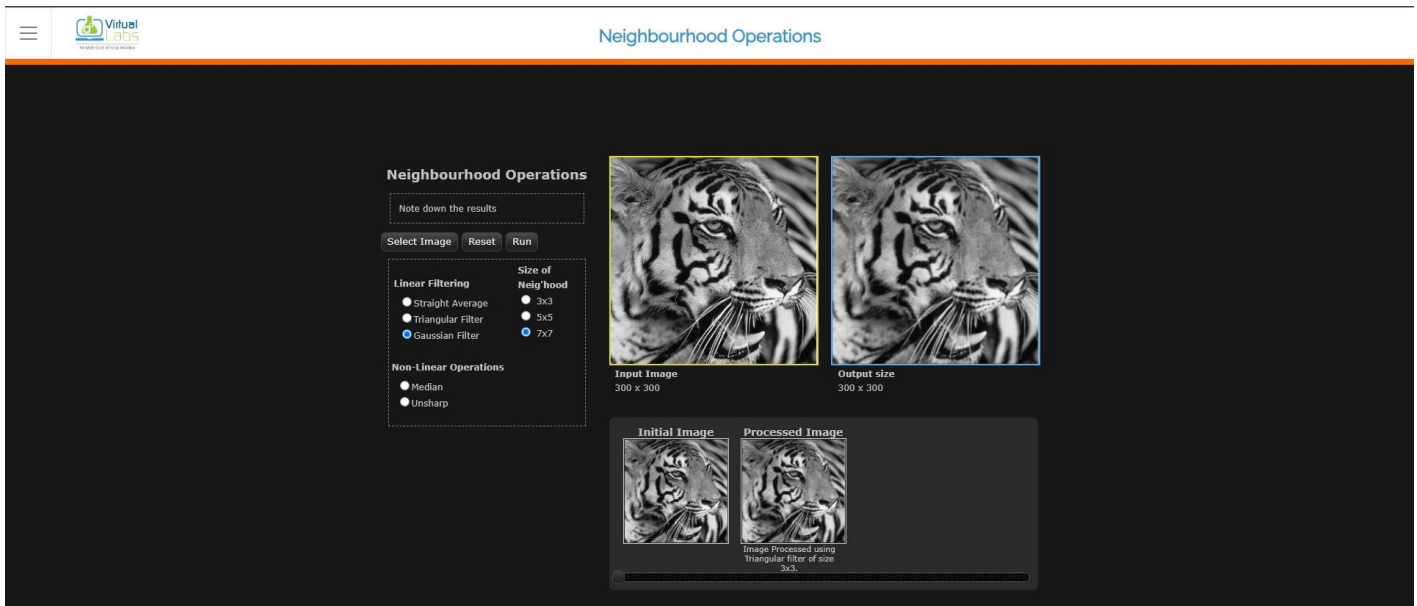
i) Straight Average

ii) Triangular Filter



The screenshot shows the 'Neighbourhood Operations' interface in Virtual Labs. The 'Linear Filtering' section has 'Triangular Filter' selected. The 'Size of Neighbourhood' is set to '3x3'. The 'Input Image' is a tiger, and the 'Output size' is '300 x 300'. Below the main image, there are two smaller images: 'Initial Image' and 'Processed Image'. The 'Processed Image' is labeled 'Image Processed using Triangular filter of size 3x3'.

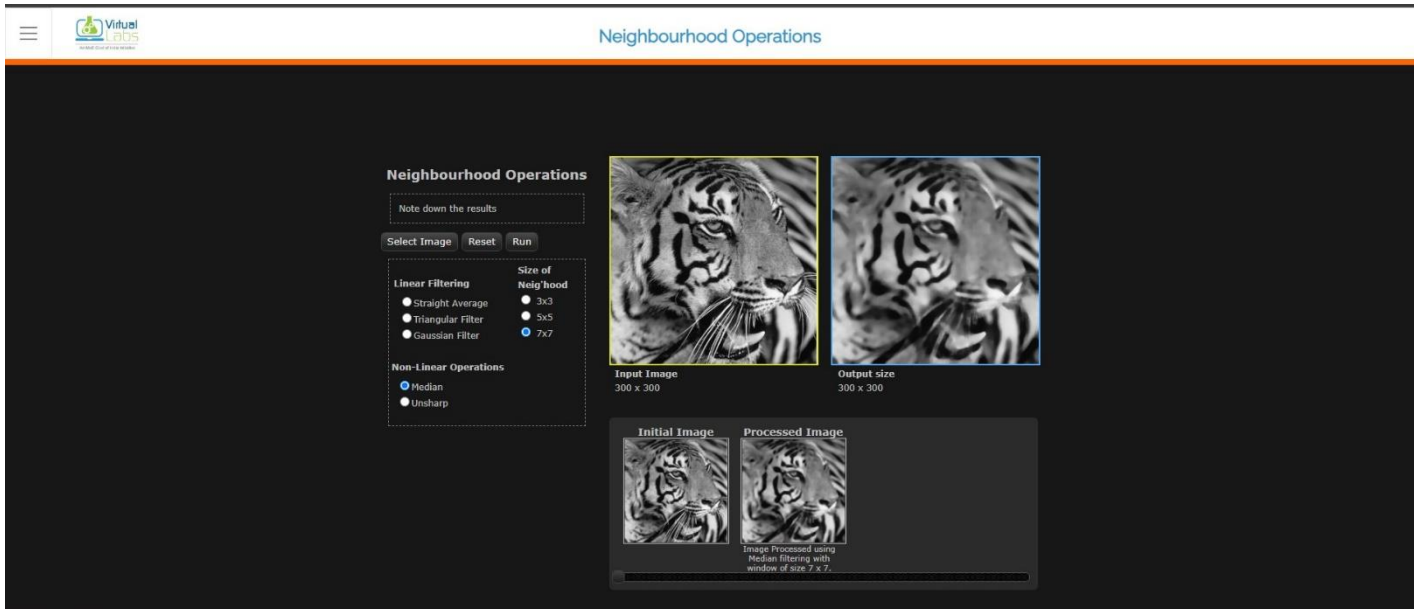
iii) Gaussian Filter



The screenshot shows the 'Neighbourhood Operations' interface in Virtual Labs. The 'Linear Filtering' section has 'Gaussian Filter' selected. The 'Size of Neighbourhood' is set to '3x3'. The 'Input Image' is a tiger, and the 'Output size' is '300 x 300'. Below the main image, there are two smaller images: 'Initial Image' and 'Processed Image'. The 'Processed Image' is labeled 'Image Processed using Triangular filter of size 3x3'.

2) Non-Linear Operations

i) Median filter



ii) Unsharp Filter

