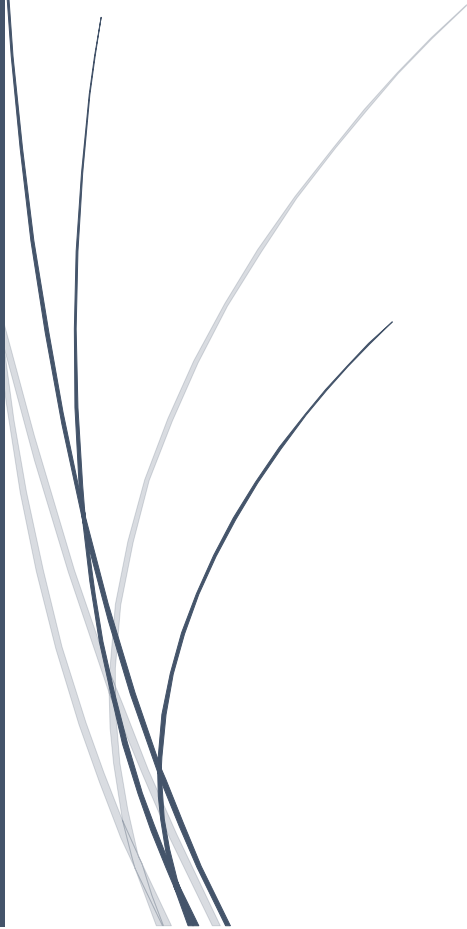


10/24/2021

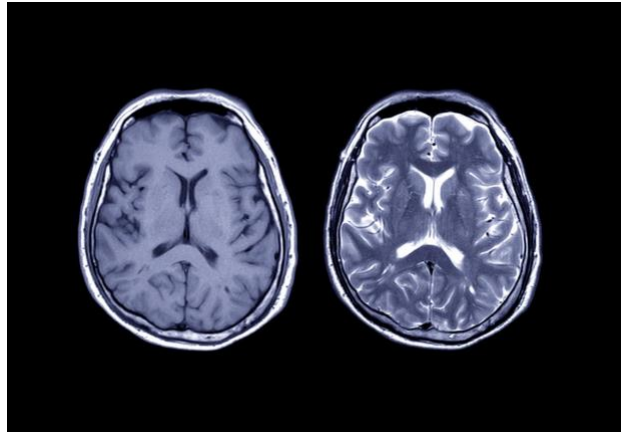
# Assignment 1- Task2

## Report

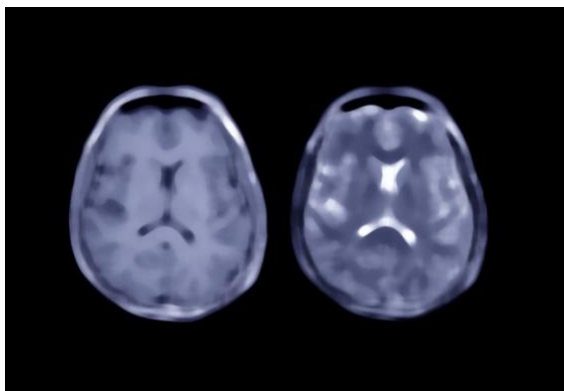


All these built-in filters were very fast as compared to the filters that I had manually implemented. The report shows the comparison of MRI image around all the filters asked in assignment.

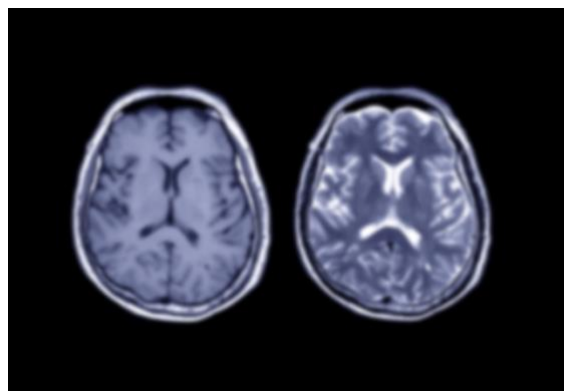
Original Image



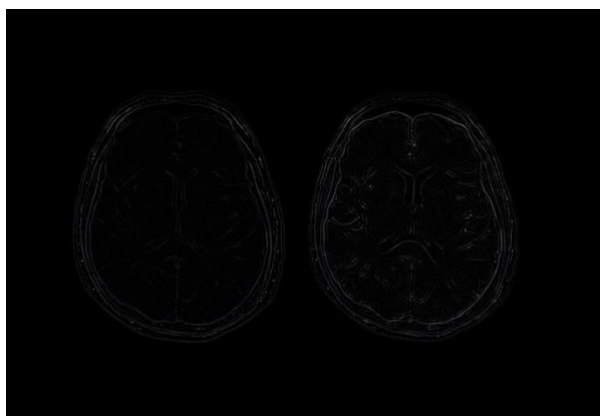
MRI2.JPG



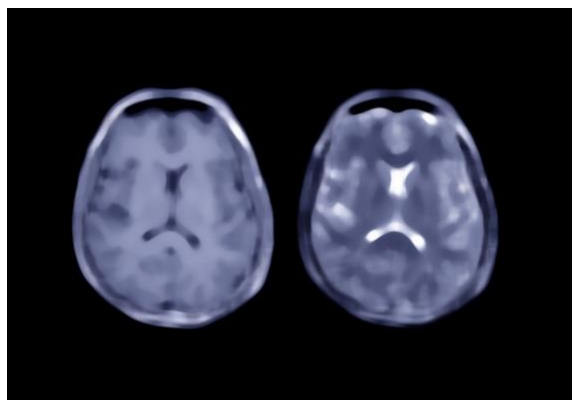
Bilateral Filter



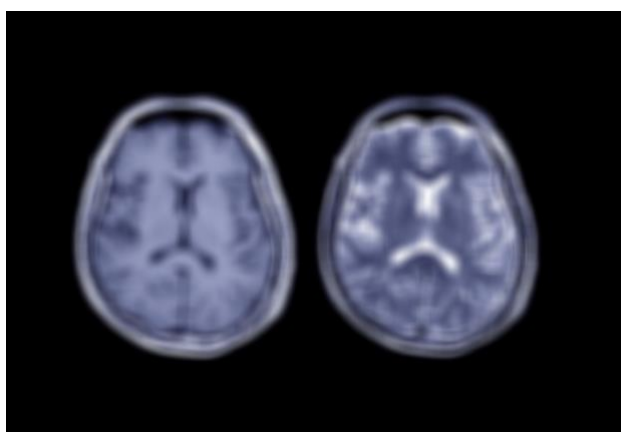
Gaussian Blur



Laplacian



Median Filter

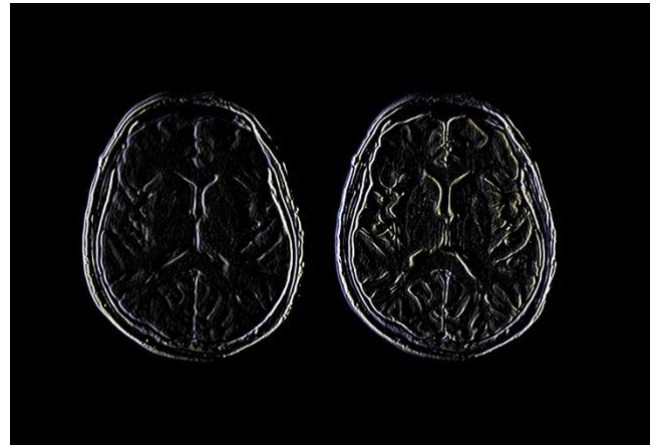


Simple Blur

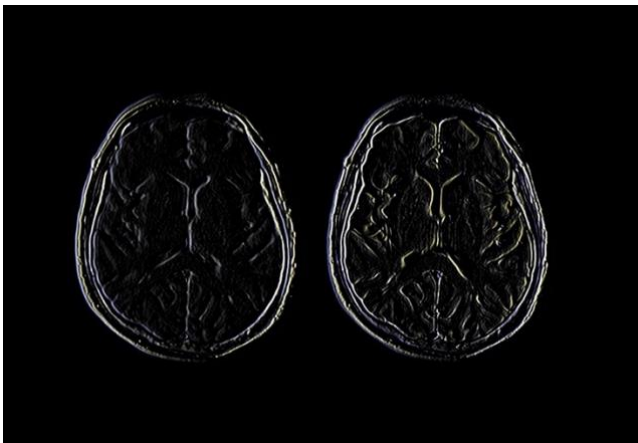
If we see all the above results of different blurring filters, we can see median, bilateral and gaussian have somewhat similar results, whereas, simple blur results into much blurring and Laplacian fades away the image



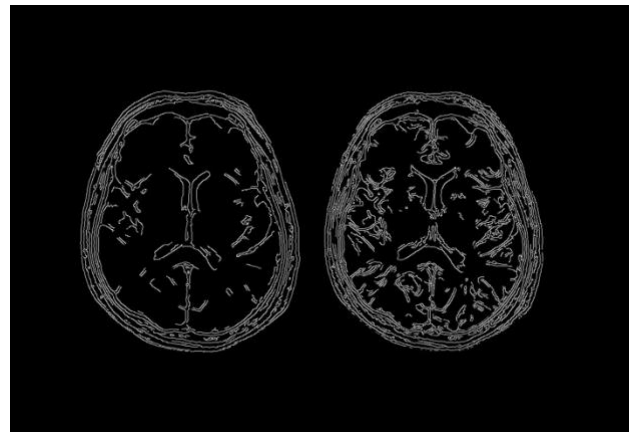
Sobel\_Y



Sobel\_X



Prewitt



Canny

Sobel\_x and Sobel\_y shows somewhat similar results, with differences around x and y axis. Prewitt blur the image a bit and Canny shows much details around the edges.