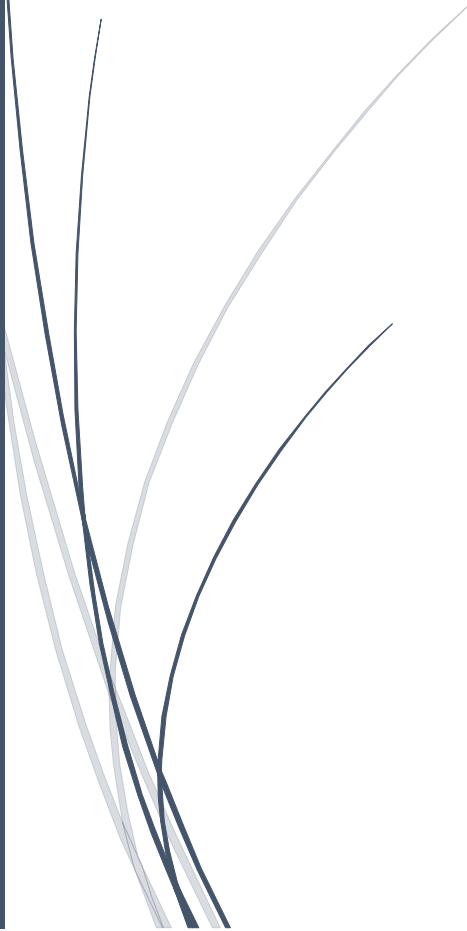10/24/2021

Assignment 1- Task1
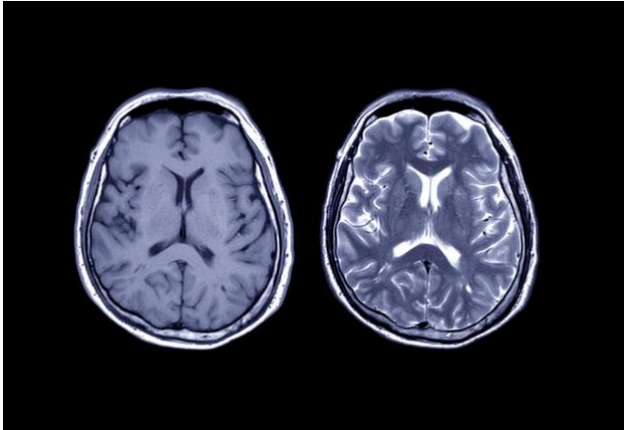
Report

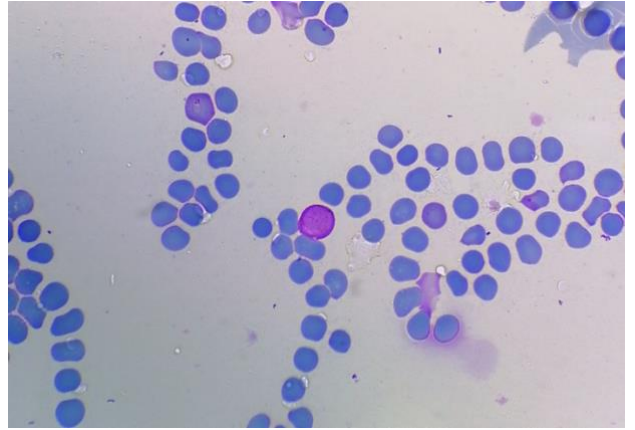# Guassian Filter

I have tried different combinations of sigma and T. Best results that I have found were on the combination (sigma = 1.5 , T = 0.5) as shown below. (Other combinations that I had tried were (sigma = 0.5, T = 0.3) and (sigma = 1, T = 0.4)

Original Images
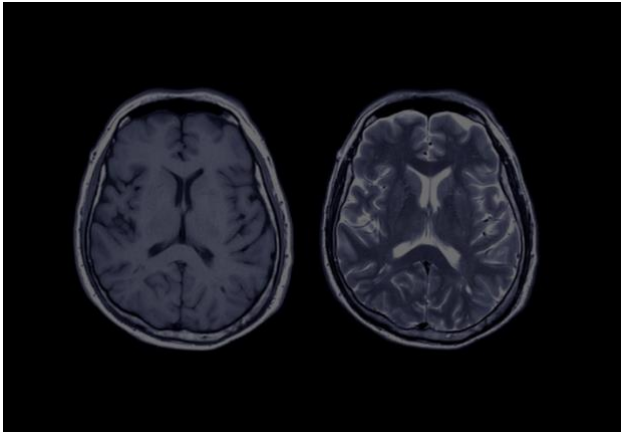

MRI2.jpg
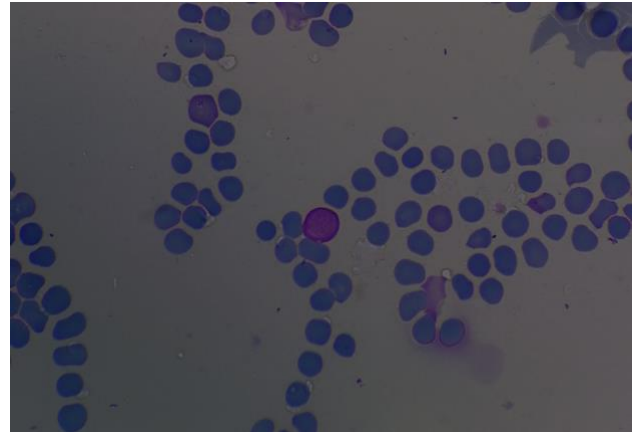

3.png

chicken.jpg

flower.jpg

banana.jpg

Guassian Filter Results

MRI2.jpg
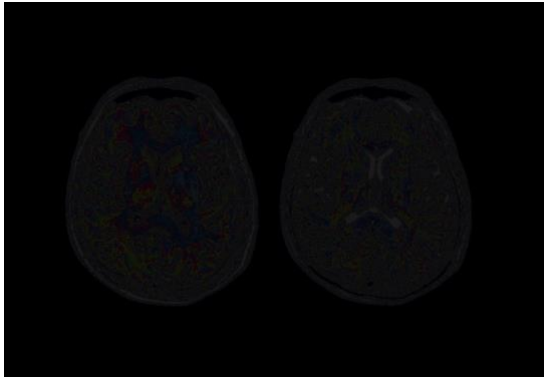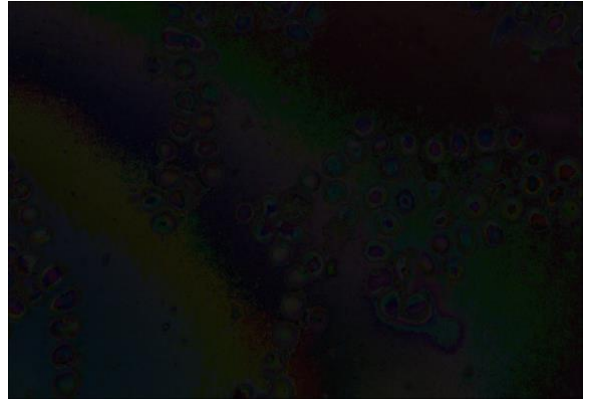

3.png

Banana.jpg

chicken.jpg

flower.jpg

Box Filter Results

Box filter results were not much good as compare to Guassian filter results, as shown below.
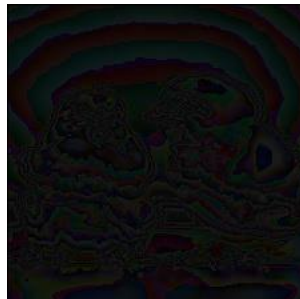

MRI2.jpg

3.png

Banana.jpg

chicken.jpg

flower.jpg

Prewitt and Sobel Edge Detector

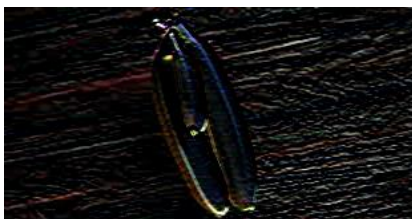Prewitt detector gave good results as compared to Sobel detectors

MRI2_Prewit

MRI2_Sobelx

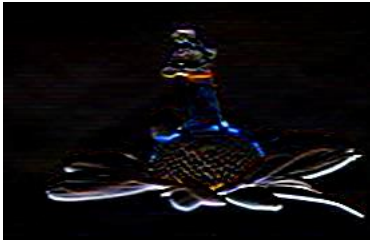MRI2_Sobely

Banana_Prewit

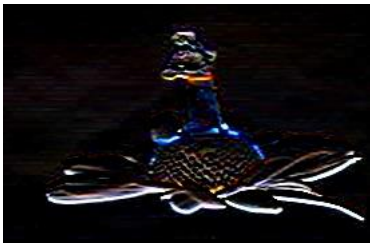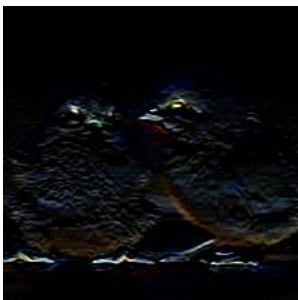Banana_Sobelx

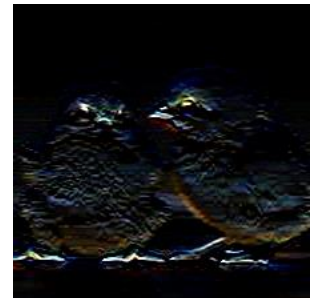Banana_Sobely

Flower_Prewit

Flower_Sobelx

Flower_Sobely

Chicken_Prewitt

Chicken_Sobelx

Chicken_Sobely

3_Prewitt

3_Sobelx

3_Sobely