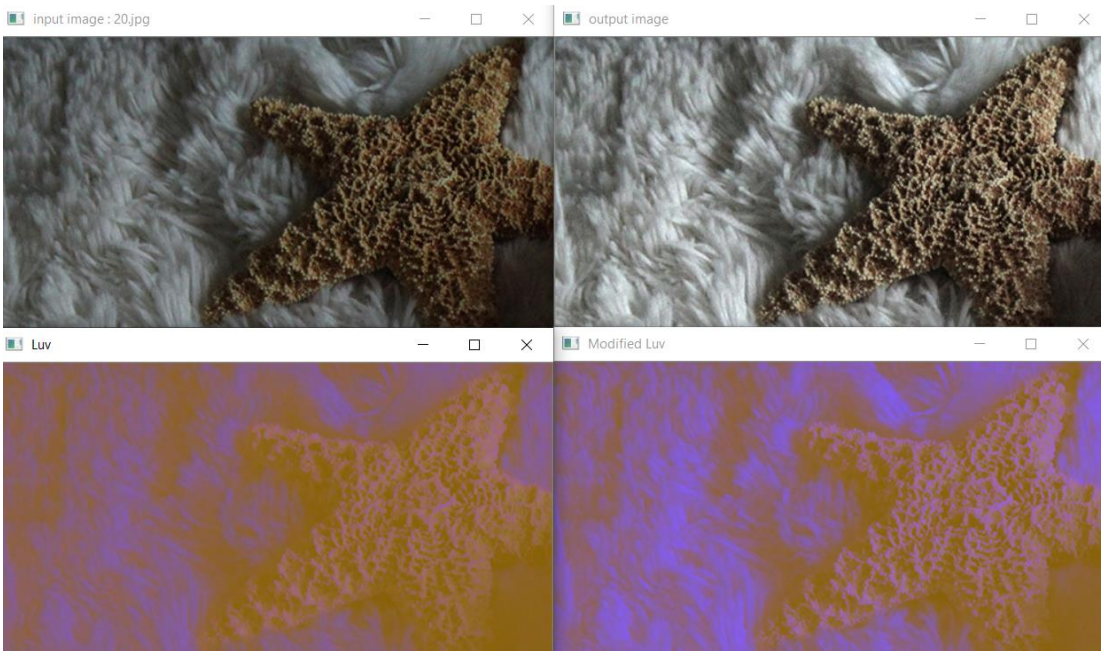
Computer Vision Project

Linear Stretching & Histogram Equalization

1. Linear Stretching

Improves Image



Min and Max of input image are 0 -180, So this image has a lot of room for expansion and to improve its quality of details. The improvement is obvious when you compare the Luv image before and after modification

Does not improve Image

Min and Max of input image are 16 -253, So when you try stretching to improve the quality of the image it doesn't have much room for exaptation as the expected range is only 0 - 255

2. Histogram Equalization

Improves Image

In the input image the details are not clearly as most of the colors used are in the bright end of the spectrum. Using Histogram equalization helps to bring out the details

Does not improve Image

The input image is already clear and looks good although at has only few colors due to its context (the flower has only a few shades of pink and orange). But, doing histogram equalization introduces black and lot more dark shades that are not improving the image