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BS IT MORNING

Report

Introduction: This is computer vision and image processing group assignment.

[GitHub link](https://github.com/maakali24/Computer-Vision)

Problem:

Calculating gradient of the image

Solution: we used Sobel horizonatal and vertical derivation to calculate image gradient.

Modification

This code is combination of multiple codes available in book named “practical machine learning and computer vision by python”

We applied guassian filter with sigma value 10 to smooth our picture.

We applied horizontal sobel derivation with kernel size 3 to provide real look of image.

We applied verrtical sobel derivation with kernel size 3 to provide real look of image.

We saved our result images on disk.

Algorithm:

We read the image from the disk.

We applied the Gaussian filter to the image.

We converted the image bgr to gray scale.

We applied Horizontal vertical Sobel Derivation.

We image in individual windows and saved on disk.

Conclusion:

Results: