

Assignment 2

Deadline: Apr 21, 2023

Please complete the below questions in Jupyter Notebook or Google Collab. Please submit a report/notebook and input images. **Submit a pdf as well which showcases all the coding steps, outputs for all the questions and an explanation of all the steps.**

You can use images or datasets of your own choice for Qs 1 to 4.

Qs 1: [2 Marks] Implement the Harris algorithm using OpenCV.

Qs 2: [2 Marks] Implement Image Pyramid using OpenCV.

Qs 3:

[3 Marks] Implement the SURF algorithm using OpenCV.

Or

[3 Marks] Implement Image Segmentation with Watershed Algorithm using OpenCV.

Qs 4: [3 Marks] Implement SIFT algorithm using OpenCV.

Qs 5: [5 Marks] Implement object detection using YOLO on the COCO dataset. Provide the results for any 5 images (for testing purposes) from the dataset.