

Participation Report

Team Members:

- Harpreet Kaur
- Vani Balla
- Altamash Arif
- Abeesh Thampi
- Sudhan Manovah

Tasks Participated:

Harpreet Kaur – Analysis of question 1 and understanding the usage of Sobel operator. Analyzed the python code to compute & plot G_x , G_y , gradient magnitude for a Portable Network Graphics image.

Vani Balla – Analysis of question 2, identification of python code to add salt& pepper noise and removal of it using median & gaussian filters.

Altamash Arif – Analysis of question 3, identification of python code for implementation of Canny's edge detector using scikit image library and analysis of varying the hyperparameters such as thresholds & sigma for effective detection of object in the image.

Abeesh Thampi – Implementation of question 1, selected test image and computed G_x , G_z , gradient magnitude and plotted the same. Interpreted the findings from the results of grayscale and color image.

Sudhan Manovah – Implementation of question 2 & 3, generated an image with salt & pepper noise and removed the noise using median & gaussian filter. Then interpreted the findings. Also interpreted the findings from effective object boundaries detection using Canny's edge detector.