F 435 Digital Image Processing

Assignment 2&3

Submission date: 20th April 2021  
Weightage 10%

**Instructions: Copy code, input image and output image to a word file. Include the codes and appropriate images. Make sure you use unique images for your illustration. Zip codes, images, word document together for the submission.**

1. Take a picture of a page with printed text. Use MATLAB’s “ocr” package to recognize the text and save the content as .txt. Display output image with word bounding boxes and recognition confidences. (Save code as Q1.m)
2. Take a picture of a car. Use Yolov3 in Matlab to implement the example given here. <https://in.mathworks.com/help/vision/ug/object-detection-using-yolo-v3-deep-learning.html>  
   Identify the image of a car using the implementation. (Save code as Q2.m)
3. Read the attached paper “Artistic Style Transfer”, and using their code (github link given in the paper) transform your selected image to the style of “Starry night”. No need to save code. Show input images and outputs.