

## Deep Learning –HW#1

### About the Assignment

The main aim of the assignment is to gain some fundamental knowledge about image processing on Python. Assuming that you are given a sample **AI** image as shown in Fig. 1. All experiments must be implemented in google colab.



image1



image2

Fig. 1: Original images.

### Task-1:

Resize all images to 256x256x3 format and apply following experiments. Your codes should be worked for image1 and image2.

1. flips image1 vertically
2. flips image1 horizontally
3. rotates image to left by 90 degree
4. rotates image to right by 90 degree
5. resizes input image to half by keeping aspect ratio
6. Crop left half of image1 and right half of image2, then merge these parts to create a new image.
7. finally, displays input and output images

## Task-2:

1. galibiyet
2. spor
3. taraftar
4. ihracat
5. sektör
6. ürün
7. kurul
8. parti
9. kanun

You are given three documents (spor, ekonomi, siyaset). Extract 1x9 histogram and plot this histogram by using given words. Your histogram would be like below.



Send your code as zip. Yourname-surname.zip