Deep Learning Assignment 2
IIIT SriCity
Full marks 30, Deadline 14/04/2020, 5 PM

Instructions:

- **The deadline is strict and no further extension will be made**

- **The experiments should be carried out in own laptops**

- **The GPU server should not be used for the assignments**

- **Keep all your codes and auxiliary files in a single zip file along with a pdf file showing the results.**

- **Name of the zip file should be [full roll number]_A2.zip**

- **The required dataset can be obtained from the given link**

- **The zip files should be submitted within the deadline in the same drive.**

- **All questions carry equal marks**

- **The submitted codes will be checked for plagiarism. Plagiarised codes will be rejected and given 0 marks without review.**

- **DO NOT UPLOAD THE DATASET; UPLOAD ONLY CODE AND REPORT**

1. Implement the basic GAN model for Generating the images in the given dataset. The input noise may be approximated by any suitable distribution.

2. Find a good latent representation of length 100 using autoencoder for the given dataset of images. Write the latent vector in a csv file with corresponding class label.

3. Implement another GAN to reproduce images of the same dataset, where the previous autoencoder is used as generator.

Link to dataset: https://cswww.essex.ac.uk/mv/allfaces/faces94.html