GANS MASTERCLASS

Pre-requisites

- 1. Machine Learning && Deep Learning Basics.
- 2. Math behind Neural Networks.

Syllabus

1. Introduction to GANs:

- a. Deep Learning Refresher
- b. Need for Generative Models
- c.Brief History of Generative Models
- d. Introduction to GANs

2. GANs Theory Deep Dive:

- a. Vanilla GAN architecture
- b.Loss function
- c. Training GANs / Optimising the loss function
- d. Limitations of GANs

3.Standard GAN Architectures:

(Any 2 in depth. Overview of the Rest)

- a.CycleGAN
- b.InfoGAN
- c.BiGAN
- d.Text2ImageGAN
- e.StyleGAN
- f.DiscoGAN

4. Implementation of GAN using Tensorflow