**CV Project Mid-Term**

**Steps Executed:**

1. JPEG Deblocking **PreTraining** model results.
2. JPEG Deblocking results on baseline model for 100000 iterations.
3. Super Resolution results on baseline model for 100000 iterations.
4. Denoising results on baseline model for 100000 iterations.
5. Combined results on baseline model for 100000 iterations.

**Challenges faced:**

1. Model training on CPU on small training set(1000 images, 1/5th size of actual training set) for 1000 iterations only -> Extremely slow. This gave average results.
2. Porting to GPU using Google Cloud Platform.

2.1. Setting up GPU on GCP

2.2. The baseline code was written on Tensorflow 1.x api. We had to port the code to Tensorflow 2.x api (because the VM instance supported TF 2.1.0)

3. Pretrained model was only available for JPEG Deblocking:

3.1. Generated dataset for Super Resolution

3.2. Generated dataset for Denoising

4. Generated dataset with 3 image attacks (Super Resolution, Noise, JPEG deblocking)