AI6126: Advance Computer Vision

Project 2 – Blind Face Super Resolution

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**Model Used**

SSResnet (baseline code given)

**Loss Functions**

MSE, L1 Loss

**Training Curves (for first 20k iterations)**

Chart

Description automatically generated

**PSNR of model on validation set**

28.83683

**Number of parameters of model:**

1,517,571

**Specs of training machine (number of GPUs, GPU Model)**

All experiments were running on Google Colab Pro+ account.

**What I did**

* Ran default config with 138,000 iterations
* Have a few interruptions, used cfg.resume\_from checkpoint file to resume
* Did not run validation for a huge chunk of iterations in between to save a little bit of training time

**Attempting at making GAN model to work**

* Wanted to use SRGAN and ESRGAN on the project 2 dataset, however realised both GAN models are more than 1,821,085 limit set for this project
* Due to lack of time, not able to get the GAN to work before 4/22 2359

**Screenshot of Codalab score achieved**