

AI6126: Advance Computer Vision

Project 2 – Blind Face Super Resolution

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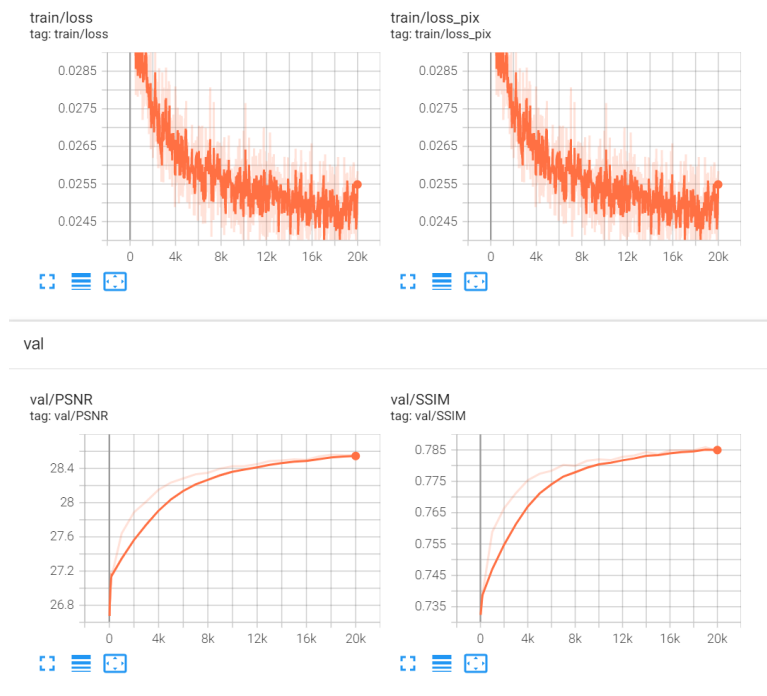
Model Used

SSResnet (baseline code given)

Loss Functions

MSE, L1 Loss

Training Curves (for first 20k iterations)



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

Codalab

45	liuq	6	04/22/22	28.75017 (45)
46	HWD	2	04/20/22	28.74964 (46)
47	wang1524	3	04/22/22	28.74554 (47)
48	ZENG_ZHENG	5	04/19/22	28.74097 (48)
49	rk	37	04/22/22	28.74058 (49)
50	MiniY	17	04/22/22	28.73501 (50)
51	RS_M	5	04/22/22	28.73327 (51)
52	li0029en	13	04/22/22	28.73312 (52)
53	MiaoJing	13	04/22/22	28.73098 (53)
54	Jsong66	12	04/22/22	28.73005 (54)
55	zeng144	3	04/18/22	28.72887 (55)
56	xdeng	3	04/21/22	28.72841 (56)
57	cxn12	18	04/22/22	28.72781 (57)
58	YWANG100	14	04/22/22	28.72735 (58)
59	zodiac	4	04/22/22	28.71772 (59)
60	GLZ	2	04/21/22	28.71749 (60)
61	zwv	2	04/21/22	28.71736 (61)
62	kiet.cap1999	5	04/22/22	28.71556 (62)
63	cv	11	04/22/22	28.71080 (63)
64	xinlai_jiang	2	04/22/22	28.70413 (64)
65	vigneshvalliappan	3	04/22/22	28.69979 (65)
66	lan729	8	04/17/22	28.69965 (66)
67	LucienZhao	8	04/22/22	28.69864 (67)
68	JamesChen	3	04/21/22	28.69487 (68)
69	calvenlim	11	04/22/22	28.69102 (69)
70	JanShaw	4	04/17/22	28.69006 (70)
71	kendrickchin	4	04/22/22	28.68599 (71)
72	wilberpeng	4	04/19/22	28.68426 (72)
73	zzhang073	11	04/21/22	28.67803 (73)
74	JunHaoGoh	7	04/22/22	28.67511 (74)
75	d1p013	9	04/22/22	28.67505 (75)
76	Lester	1	04/21/22	28.66846 (76)
77	CGAN	5	04/22/22	28.66620 (77)
78	kron0001	15	04/21/22	28.65902 (78)
79	gewenyue	2	04/19/22	28.65465 (79)
80	s210046	6	04/22/22	28.65228 (80)