

Hi friend i will describe details. This is the dataset that we will use.

http://data.vision.ee.ethz.ch/cvl/DIV2K/DIV2K_train_LR_bicubic_X2.zip

http://data.vision.ee.ethz.ch/cvl/DIV2K/DIV2K_valid_LR_bicubic_X2.zip

- **(NTIRE 2017) Low Res Images:**

- [Train Data Track 1 bicubic downscaling x2 \(LR images\)](#)
- [Train Data Track 2 unknown downgrading operators x2 \(LR images\)](#)
- [Validation Data Track 1 bicubic downscaling x2 \(LR images\)](#)

We will train it and try to denoise it on this dataset. Can u show hyperparameters and model summary as comments in code as shown in a image below(including noise u added like, u can add any noise u want). Can u also share full code so that i can show it to tutor and i want to be able to choose random images from test dataset and denoise it by myself. I want 2 different noise variation with 25 and 50. Can u reshape our image to 128*95 if its tough u can reshape it as u wish cuz it will take time and add noise(25 and 50). Our model ask us to give noisy image and it produces noiseless image.

Dataset

We picked random 40 images from pixar movies, added gaussian noise of different standard deviation, 5 sets of 5 different standard deviation making a total of 1000 images for the training set. For validation we used 10 images completely different from the training set and added gaussian noise. For testing we had both added gaussian images and real noisy images.

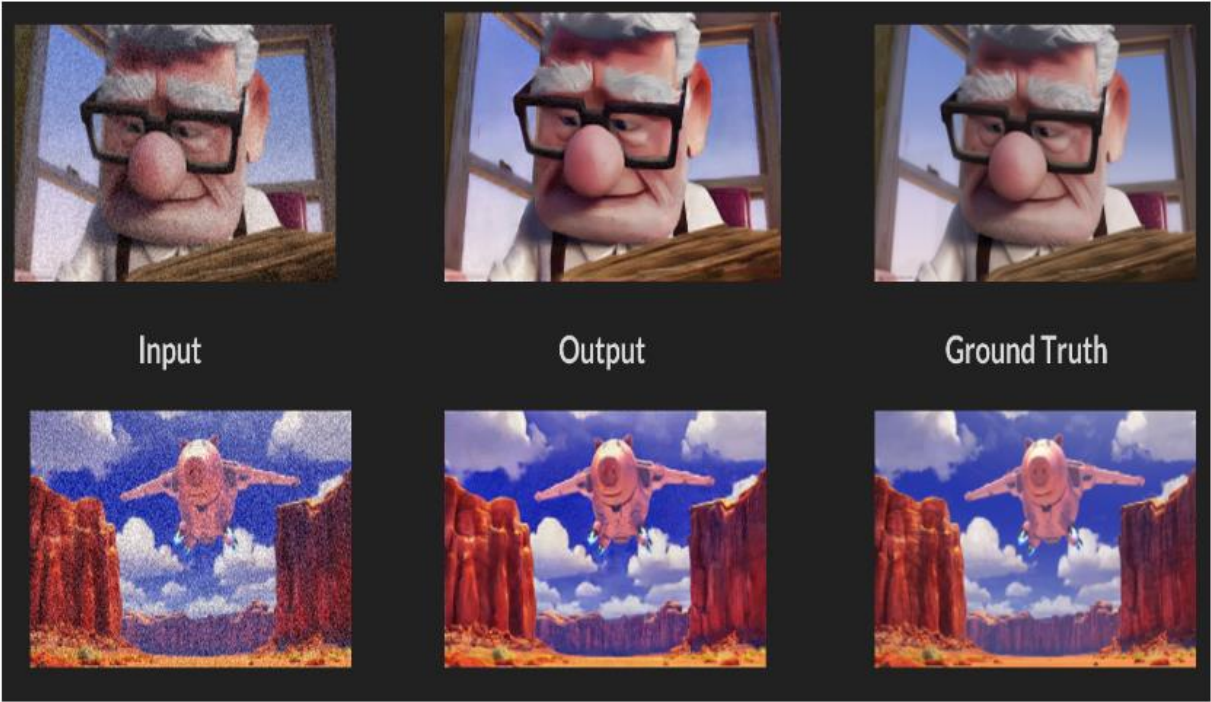
Hyperparameters

- Number of iterations - 10K
- Adversarial Loss Factor - 0.5
- Pixel Loss Factor - 1.0
- Feature Loss Factor - 1.0
- Smoothness Loss Factor - 0.0001

I want you to send me 4-5 pictures of noisy-denoised-ground-truth images as shown below(its just example). It would also good if u visualize things that u can do. In a nutshell i need to explain it to them

fully. Thanks, good luck.

3D rendering test data:



Can u also add ssim mse psnr scores. I will add to compare it with others like below.

Index	INPUT	NCSR	WNNM	EPLL	BM3D	DnCNN	Ours
PSNR (↑)	17.2576	23.9079	24.0338	24.6168	26.0641	25.2138	27.0916
MSE (↓)	1226.5441	271.6324	287.5963	248.9331	176.1172	202.5893	138.4097
SSIM (↑)	0.2869	0.5897	0.6133	0.6425	0.7360	0.6393	0.7590

