

8/16 IW updates

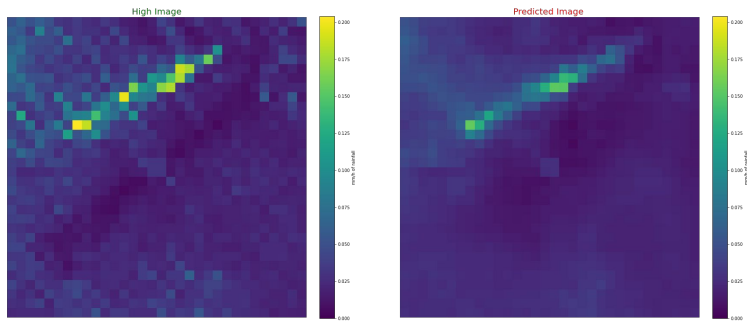
A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.

Benchmarking (finally!)

Our Model (UNET+Conv2d)

External Dataset: RMSE of 15.4309

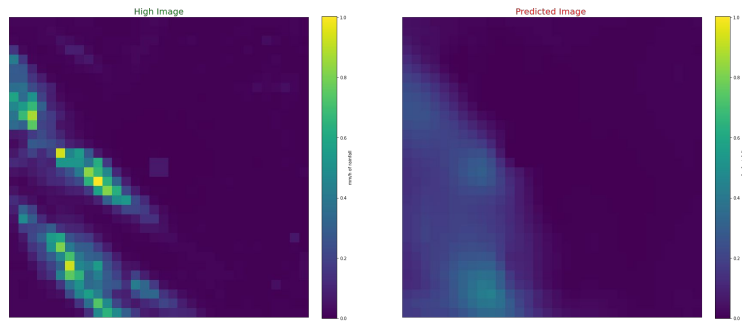
Internal Dataset: RMSE of 0.2362



SRCNN Model

External Dataset: RMSE of 19.8448

Internal Dataset: RMSE of 0.3933



Notes

1. Our model performs significantly better than SRCNN, both visually and statistically.
2. Earlier results (shown in previous slides/weeks) were actually the model overfitting the data, so I overcame that with reducing the training epochs.
3. The External Dataset is scaled from 0 to 255, whereas the Internal Dataset is scaled from 0 to 1, which explains the difference in RMSE scores.
4. SRCNN performs significantly better on our External Dataset (taken from the paper's code) than in the paper for some reason.
 - a. However, when testing against our Internal Dataset, our UNet model performs as well as the SRCNN model for External Datasets, as reported in the Paper. DM me if this doesn't make sense.

Stacking

I've got nothing done in this, that's what I was planning to do this week.

98% sure that the stacking results from last week have some flaws with getting the low res images, so I have to fix that. I'll post more results by Thursday.