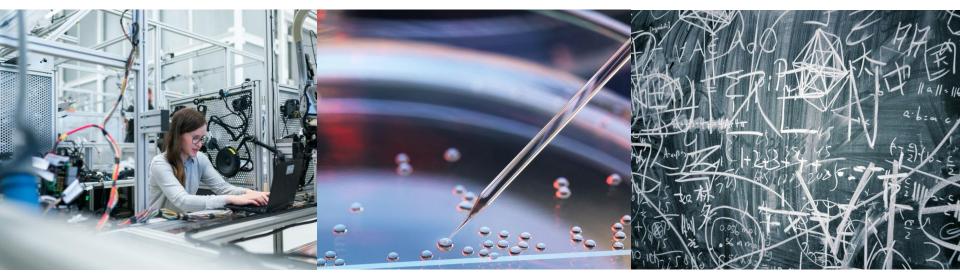
CDCS

CENTER FOR DATA AND COMPUTING IN NATURAL SCIENCES



FTX-SFT

Lennart Rustige

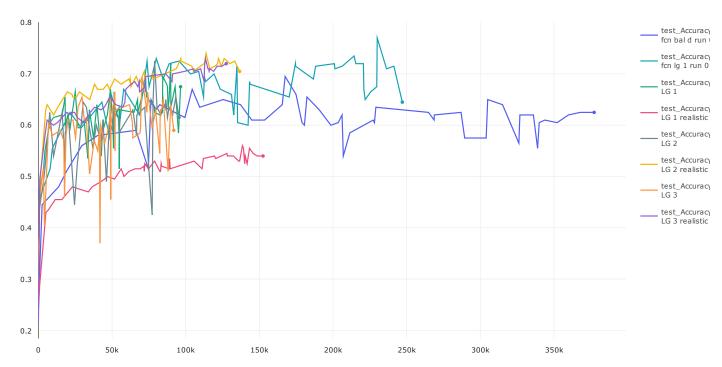
FTX Group Meeting, 16/06/2022



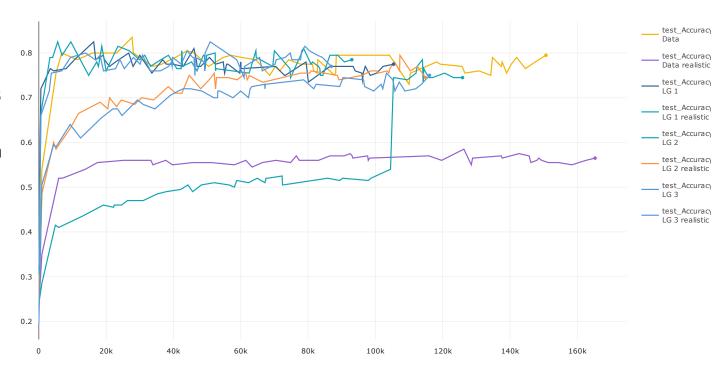




- Suffix "realistic"entails generation is not balanced and LR is 1e-5 instead of 1e-3
- LG 2 and 3 perform considerably better than data (and better for smaller learning rate)
- LG 1 'realistic' is performing worse as it ignores compact class



- Suffix "realistic"entails generation is not balanced and LR is 1e-5 instead of 1e-3
- Still no improvement seen over pure data run
- data 'realistic' is performing worse as it ignores compact class

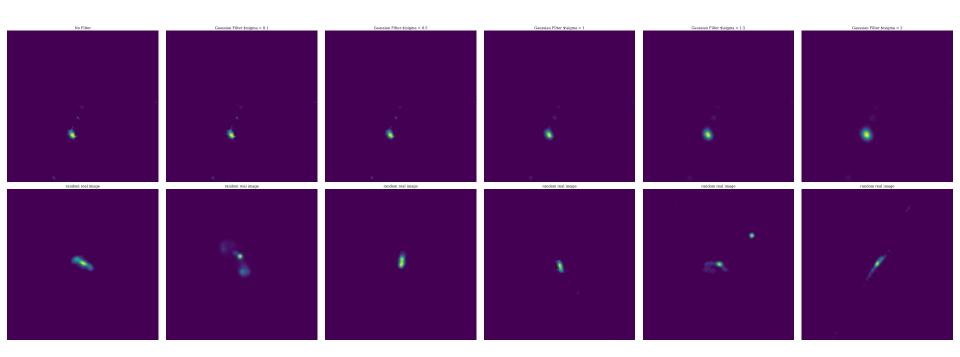


- Still early in the training.
- Smaller learning rates might be better (less fluctuation within a single run)



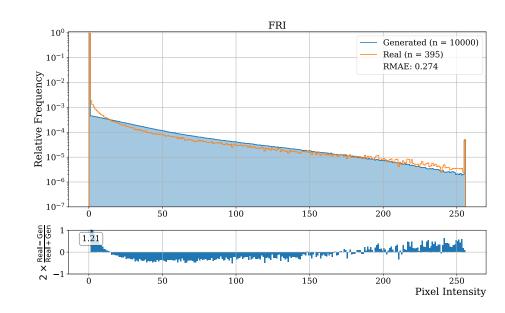
- Implementing Cross Validation right now
 - split the training set in 5 parts
 - Train 5 generators
 - Choose best iteration for 4 classes for each generator
 - Train 5 classifiers with combined data sets

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16/06/2022

- Currently generator is allowed impossible pixel values (<0 and >255), then image is clipped to [0,255].
- Idea: before clipping apply smoothing and then clip -> maybe this gives the generator the help it needs to improve on the edges?



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