call trainProcess function in trainprocess.py as

trainProcess(riverDataset, "water\_v2", "river\_train.npy", [0, 1500], [1950, 2150], "model\_1")

trainProcess(riverDataset, "water\_v2", "river\_train.npy", [0, 1500], [1950, 2150], "scibble\_model")

"water\_v2" for folder that contains files, download from <https://www.kaggle.com/datasets/gvclsu/water-segmentation-dataset/download?datasetVersionNumber=4>

For other datasets, you can find related download sources from myDataset.py file

Liver: <https://www.kaggle.com/datasets/andrewmvd/liver-tumor-segmentation>

Brain: <https://www.kaggle.com/datasets/awsaf49/brats20-dataset-training-validation>

Person: https://www.kaggle.com/datasets/tapakah68/segmentation-full-body-tiktok-dancing-dataset

https://www.kaggle.com/datasets/tapakah68/segmentation-full-body-mads-dataset

https://www.kaggle.com/datasets/tapakah68/supervisely-filtered-segmentation-person-dataset

"river\_train.npy" is the name list for all images, you can find it in npyFile folder

\_nonzero indicates that it only contains images with targets (images without targets are removed)

[0, 1500] is the training range: use images from #0 to # 1500 in the name list as the train set

[1950, 2150] is the validating range: use images from #1950 to #2150 in the name list as the valid set

"model\_1" is the saved model name, saved as model\_1.pt

you could search "NEED CHANGE" to find places that need to change

although I include create\_scribble function in trainprocess.py, it does take a long time to create scribble,

you might want to generate scribble and save it someplace. you could find scribble\_gen to do so

model.py is the U-Net from github https://github.com/jaxony/unet-pytorch/blob/master/model.py