## Instruction to run the machine learning train and inference programs

Dana-Farber

Install all the requirements (make sure you have all): pip install -r requirements.txt

## Run the train machine learning program

- 1) Open the "brain train" folder with the train.py program
- 2) Copy the selected training folders (minimum 16 folders: batch of 16) with images .tif from folder XX to "kaggle\_3m" (remove all "vol.txt" files)
- 3) Open Terminal and run the "train.py" as:

python train.py

## Run the inference program for tests images

- 1) Open the "brain inference" folder
- 2) Copy the folders for testing with images .tif from folder XX to "kaggle\_3m" (keep the "vol.txt" files in the folders)
- 3) Copy the weight folder from "brain train" and paste to "brain inference"
- 4) Open Terminal and run the "inference and analysis.py" as:

python inference\_and\_analysis.py --weights ./weights/unet.pt

more info about the programs can be found in:

https://github.com/mateuszbuda/brain-segmentation-pytorch#inference