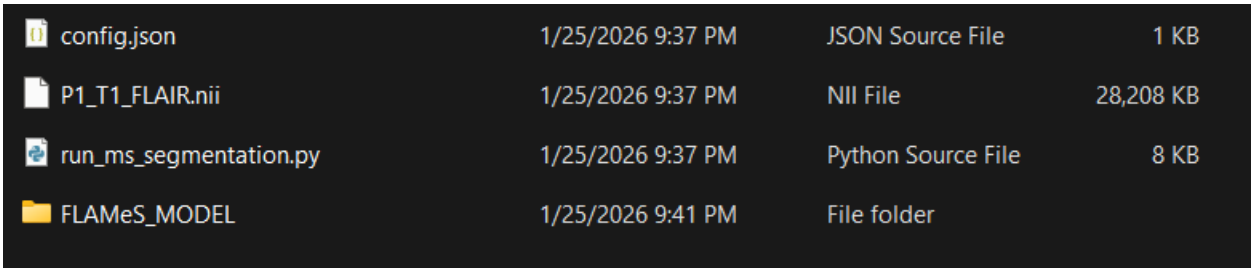
Guide for FLAMeS Segmentation Model

Research Paper about FLAMes Model: FLAMeS: A Robust Deep Learning Model for Automated Multiple Sclerosis Lesion Segmentation - PMC

Step by Step Guide:

1. Download ms_lesion_segmentation folder in : Menna&Amira - Google Drive and extract it

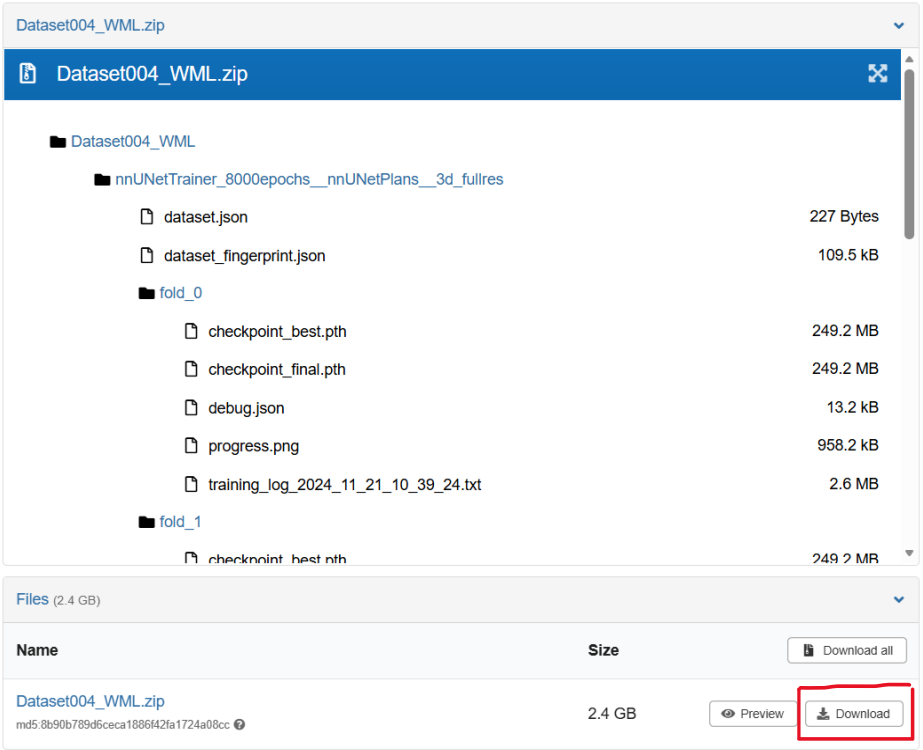


   It contains configuration file, sample to test on , python script you will run, FLAMes_MODEL you will put the Model in

2. Open this link: FLAMeS: FLAIR Lesion Analysis in Multiple Sclerosis

3. Choose version 2

4. Download the Zip file



5. Extract and put nnUNetTrainer_8000epochs__nnUNetPlans__3d_fullres folder inside FLAMeS_MODEL folder

It should look like that:

6. Open ms_lesion_segmentation folder in vs code and ensure you have python 3.11

7. To run the python script and set up the required libraries

   Type In cmd:

   ```
   python3.11  run_ms_segmentation.py  input_path output_path
   ```

   EX:

   ```
   python3.11  run_ms_segmentation.py P1_T1_FLAIR.nii
   output_mask.nii.gz
   ```

Notes:

1. I ensured the setup will be on any laptop, but I didn't try it on another laptop or OS
2. I couldn't use CUDA in my device, and I used CPU, so it was so slow.