How to Run the model

To run and model and re-produce the best results thins steps need to perform.

Step

1. Run Notebook "MISA_Project_PreProcesing_Step(1)_Registration.ipynb" to perform the registration of the Volumes to MNI template.
2. Run Notebook "MISA_Project_PreProcesing_Step(2)_Normalization.ipynb" to Perform Preprocessing (Pre-processing pipeline-2 mentioned in report) and to create the excel files that containing the path of the training , validation and testing data. Network Read the data from excel files that have the path of the data.
3. **Folder "Model" Contain the pretrained model and weights.**
4. To run the code please the command **"python train.py --config config_spm_tissue.json"**
5. In the file **"config_spm_tissue.json"** to maintain and configure model

   model_path": put ur model weights path (spm_tissue folder)

6. To prepare the Testing Data and After segmentation to bring it back to the original spacing use this Notebook "PreparingTestingData.ipynb"
7. To run the testing **""python deploy.py --config config_spm_tissue.json""**
8. Finaly to Compute the Dice and Box plot Run the **"Evaluation_MISA_Project.ipynb"**

   Resources:

   All codes are available in Github: https://github.com/fitushar/Brain-Tissue-Segmentation-Using-Deep-Learning-Pipeline-NeuroNet

   Best Trained Model Weights Drive Link: https://drive.google.com/file/d/1v8gbgLNk5ekgZ5OUgRPYgmN5TKFiuIEU/view?usp=sharing