Read Me

DATA1_Matlab.zip is a zip file which contains all the necessary EEG data, and these data were analyzed by BCI_09_01.m, BCI_09_01_2.m, BCI_09_01_3.m, BCI_09_04_01_4.m mini.m and mini_2 in the Matlab for milestone2. This part of code is just for testing if Muse 2 can recognize the right or left hand imaginary movement.

Glioma.zip is a zip file which contains 300 ground truth MRI images with tumor in it. And gan-mri-2.ipyng was code for removing noise from the MRI images by using GAN model. MRI_Process(Unet&GAN) was updated code for removing motion artifacts from blurred MRI images by using modified U-Net and GAN model. This code is mainly designed and accomplished by me and Joshua Scallon Fuller.

EEGdata2+MouseControl.zip is a zip file which contains both data and training code.

To achieve our goal which use mind to slide the MRI images, you can do the MRI analysis first and then store the output into a folder at desktop in the personal computer, and then do the EEG&Mouse control code. Thus the mouse can move and click the MRI images.