Folder Description

The Folder and Subfolders are arranged in the following order:

- The Parent folder contains 8 subfolders:
    - The **Dataset** folder contains the 6 pre-labelled TUH EEG data that is used for training the model.
    - **Raw_EEG** folder contains a single raw unannotated EEG file that can be used for annotation
    - The **Extracted_Data** folder contains numpy files that are the extracted features of one of the TUH EEG files from the Dataset folder.
    - The **Post_RFE** folder contains a feature mask.
    - **Trained_Model** contains an SAV file of a pre-trained model that can be used directly
    - **New_Extracted_Data** is an empty folder that is used by the code to save the extracted features from the data in the Dataset folder made by the user.
    - **New_Post_RFE** is an empty folder that stores the new numpy file after feature elimination on the extracted features made by the user.
    - **New_Trained_Model** is an empty folder that will save the trained model from the user.
- The Parent folder also contains an IPyNb file that contains the code that can be executed by the user, explanation for which is given below.

Code Execution Description

The IPyNb file in the Parent folder contains three major subsections, **(shift+enter runs the selected cell)**:

- The **First** subsection has the Installations, Import statements and Function definitions that needs to be run by the user and is not optional. There are many in-line comments and comment blocks that explain the code in detail.

- The **Second** subsection has the piece of code that can be run by the user to perform all aspects of the code execution, which is, segmentation, feature

extraction, feature elimination and training from scratch, this saves the respective outputs to the empty folder already present in the Parent folder. Although this will take a very long time as these are time consuming operations, so if the user does not want to run this from scratch and then annotate files, we have already saved the results from this section and saved the output files in the Parent folder that can be used in the third subsection.

- The **Third** subsection circumvents all the code that requires training and extracting features from scratch and directly uses the results from a previous run already stored in the Parent folder. The user can directly annotate a file stored in the Parent folder.