1. Download the datsets from the link : <https://www.kaggle.com/zaamad/deep-multilevel-fusion-datasets-and-codes>
2. The ImageFolders\_KinectV2Dataset folder has all the images related to Kinect V2 dataset.
3. The ImageFolders\_UTD-MHAD Dataset folder has images of UTD-MHAD dataset.
4. To run the code on Matlab, Place all the subfolders of folder “ImageFolders\_KinectV2Dataset” and matlab files on same Matlab’s working directory.
5. Run the Matlab file “ FirstDeepFusionFramework.m” to see the results about the accuracy of

First fusion framework on Kinect V2 dataset.

1. Similarly Run the Matlab file “ ThirdDeepFusionFramework” to see the results about the accuracy of Third fusion framework on Kinect V2 dataset.
2. The Matlab files starting with the name “XONet” are trained CNN Models on image folders for Kinect V2 dataset.
3. To execute the code on UTD-MHAD dataset you need to train CNN on the image folders present inside “ ImageFolders\_UTD-MHAD Dataset ” and generate the CNN training Models like “XONet” files given for KinectV2.
4. You can easily generate models using attached Matlab files like “ CNN\_DepthImages, CNN\_FullAugmentedSignalImages and other attached CNN files.
5. Inertial2SignalImages.m converts the raw inertial data into images.
6. Depth\_ImagesFormation.m converts the raw depth data into depth images.