**Instructions for using the toolbox for your own data**

1. Download the repository to your local drive and unzip it.

2. Provide an excel file containing the name of you behavioural data as well as their corresponding classes. See example folder to find a sample excel file.

3. Create a folder and place your behavioural video data in that folder. Create 2 other folders, one for video frames and the other for extracted features. The code needs the path for these three folders as well as your own excel file. You can modify the paths in **parameters.py** file to personalize the toolbox for your own data.

4. Run **Network1.py** to extract features from the video frames using the CNN (*Part 1 of the network*). Once you run this python script, the features will be saved in your feature folder. You can find related modules for part1 of the network in Part1 folder.

5. Run **Network2.py** to train the model using RNN (*Part 2 of the network*). You can find related modules for part 2 of the network in Part2 folder. To modify the models, you need to edit **Model.py** in Part2 folder. To modify the number of validation sets in kfold validation, you just need to change kfold parameter in **parameters.py** file. The weights for trained model (for all validation sets) will be saved in your destination path (see **parameters.py** file).

6. Finally, to make prediction based on the trained model and validate the model run **prediction.py**.

For more information, refer to the explanation in each script and modules.