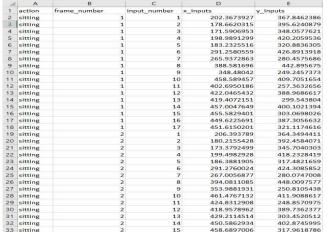


## **Human Fall Detection**

## Week 03 (Due on 25th June):

- Give the videos you have created (or you can take videos made by others from the drive)
  as input variable to the posenet instead of Web-Cam live feed and extract the (skeletal)
  points.
- 2. Save these points in .csv format. This will be used as the dataset in the future for training your model.
- 3. .csv file must have the following columns present in it.
  - action name
  - frame\_no.
  - Input\_number (Skeletal Point number allocated by Posenet to each body point
    e.g.: Nose 1 ,Right Elbow -9 , etc. Don't give names of the Skeletal points.
    Only numbers are enough)
  - x\_coordinate
  - y\_coordinate
- 4. Create only **one** .csv file and append the points to it after each action video given as an input.
- 5. Only a collective .csv file of all the actions can be used for training.
- 6. Your .csv file should look like this.



- 7. Explore and study about the possible algorithms (e.g. :- CNN, RNN, LSTM, etc.) that can be used to train the model using this created dataset, so that it becomes capable of distinguishing between the given actions. Find why some algorithms are more suited to our purpose than others. Also, study how the model is trained using these algorithms.
- 8. Check out the new videos added by your colleagues in the drive. Also we have added few videos from our side that can be used for creating dataset.