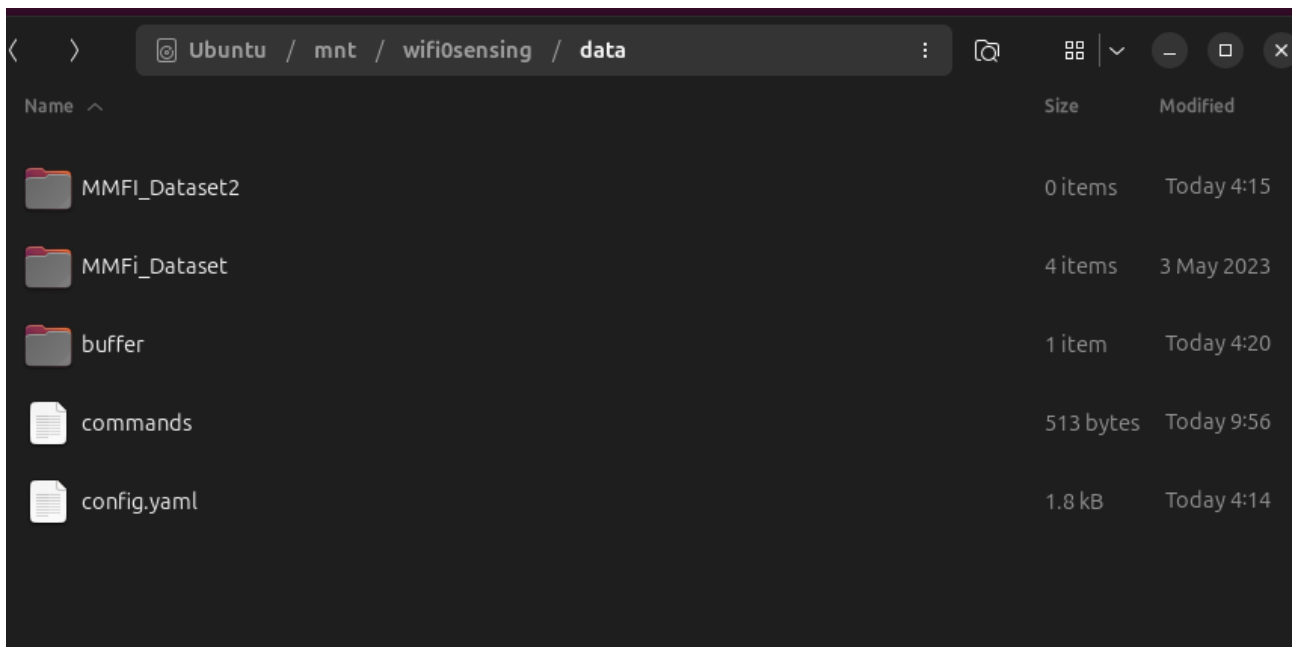


- 1) I have cloned the repository: <https://github.com/the-sky001/WiDistill>
- 2) Then I downloaded the MMFI dataset : [https://github.com/ybhbingo/MMFi\\_dataset](https://github.com/ybhbingo/MMFi_dataset)
- 3) Arranged it according to the given structure which is

```
$(MMFi_Dataset)
|-- E01
|   |-- S01
|       |-- A01
|           |-- rgb
|           |-- mmwave
|           |-- wifi-csi
|           |-- ...
|       |-- A02
|       |-- ...
|       |-- A27
|-- S02
|-- ...
|-- S10
|-- E02
|.....
|-- E03
|.....
|-- E04
|.....
```

I have have created the other required directories



Where E01 means experiment1, S01 means subject 1, A01 means action 1

- 4) Then I setup the environment using conda and environment.yaml in a ubuntu machine

5) Then I ran the buffer.py which uses the resnet18 model and trained the model (which is saved in the buffer directory) and gained the below accuracies

```
non_classes: 27, n_steps: (512, 500), channel: 1
using model: mmfi_resnet18
Itr: 1 Epoch: 0      Train Acc: 0.7519147519147519      Test Acc: 0.6162911162911163
Itr: 1 Epoch: 1      Train Acc: 0.911976911976912      Test Acc: 0.4415954415954416
Itr: 1 Epoch: 2      Train Acc: 0.9308099308099308      Test Acc: 0.7236467236467237
Itr: 1 Epoch: 3      Train Acc: 0.9553779553779553      Test Acc: 0.4592074592074592
Itr: 1 Epoch: 4      Train Acc: 0.9606319606319607      Test Acc: 0.3828023828023828
Saving /mnt/lfs01/scratch/scratch55/mmf/resnet18/epoch4/55mm2.pth
```

6) Then using the distillation.py I have proceeded with the distillation of the dataset

7) This results are then saved in the MMFi\_Dataset2

8) Then using this data I have retrained the model to get the below accuracies