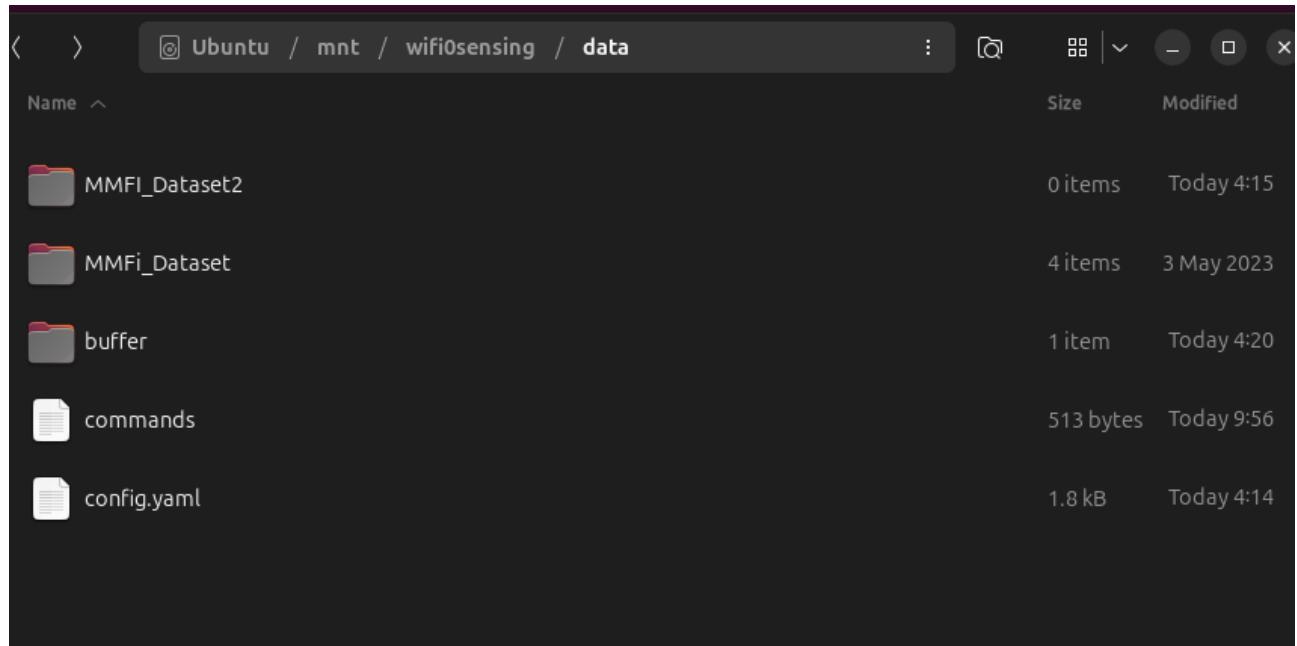


- 1) I have cloned the repository: <https://github.com/the-sky001/WiDistill>
- 2) Then I downloaded the MMFi dataset : [https://github.com/ybhbingo/MMFi\\_dataset](https://github.com/ybhbingo/MMFi_dataset)
- 3) Arranged it according to the given structure which is

```
 ${MMFi_Dataset}
```

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

I have created the other required directories



| Name          | Size      | Modified   |
|---------------|-----------|------------|
| MMFi_Dataset2 | 0 items   | Today 4:15 |
| MMFi_Dataset  | 4 items   | 3 May 2023 |
| buffer        | 1 item    | Today 4:20 |
| commands      | 513 bytes | Today 9:56 |
| config.yaml   | 1.8 kB    | Today 4:14 |

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

- 4) Then I setup the environment using condo and environment.ymal 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

```
num_classes: 27 crop_size: (342, 330) channels: 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
Scalars saved at /home/rohit/MMFi_Dataset2/mmfi_resnet18/epoch_1/training_accuracy.pt
```

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