

Incomplete instructions - Practical 4: Activity recognition on the Capture24 dataset

Setup instructions in the VMs

1. Load and initialize Anaconda. This needs to be done only once (you may not need to run this if you already see (bash) written in front of your prompt).

```
module load Anaconda3
conda init bash
```

Exit and re-login so that the above takes effect.

2. Create an anaconda environment from the provided requirements YAML file:

```
conda env create -f wearables-condaenv.yml
```

3. You are now ready to use the environment:

```
conda activate wearables
```

In future logins, you only need to run this last command.

Datasets

The data required to run the notebooks can be found in /cdtshared/wearables/. **Important:** Don't copy any data in there to own devices. Also, avoid copying the data to your VM's \$HOME. Instead, change the absolute paths in the notebooks where necessary. Or better, create a soft link:

```
ln -s /cdtshared/wearables/capture24/ capture24 # create shortcut in current location
```

How to run Jupyter notebooks remotely

1. In your remote machine, launch a Jupyter notebook with a specified port, e.g. 9000:

```
jupyter-notebook --no-browser --port=9000
```

This will output something like:

```
To access the notebook, open this URL:
http://localhost:9000/?token=
b3ee74d492a6348430f3b74b52309060dcb754e7bf3d6ce4
```

2. On your local machine, perform port-forwarding, e.g. the following forwards the remote port 9000 to the local port 8888:

```
ssh -N -f -L localhost:8888:localhost:9000 username@remote_address
```

Note: You can use the same port numbers for both local and remote.

3. Finally, copy the URL from step 1. Then in your local machine, open Chrome and paste the URL, but change the port to the local port (or do nothing else if you used the same port). You should be able to see the notebooks now.