

Preparatory Instructions for the Hands On Session of IWPAA 2019

Operating System: All the experimentation can be best executed or tested under Ubuntu 16/18 environment. Thus,

It is recommended that the participants install Ubuntu 18.04 LTS in their laptop prior to the session. If the participant has already installed Ubuntu 16 or 18, then as the next step **Python 2.7** needs to be installed in **/usr/bin/python2.7**. Finally, a virtual environment (optional) may be installed by executing the following steps.

- Install **virtualenv** in Ubuntu by **sudo apt-get install virtualenv**
- Create a virtual environment (say, **IWPAA19**) by **sudo virtualenv -p /usr/bin/python2.7 ~/IWPAA**. This will create a virtual environment named **IWPAA19** with **Python 2.7** interpreter.
- Activate virtual environment by **source ~/IWPAA/bin/activate**. This will change the command prompt.

If one has only windows environment, he/she may install **conda** for running python scripts

Python2.7

Once the python environment gets ready, the following packages should be installed.

1. Install **tensorflow** by **pip install tensorflow==1.5**
2. Install **keras** by **pip install keras**
3. Install **h5py** by **pip install h5py** (Optional)
4. Install **pandas** by **pip install pandas**

Test Installation

If you are using virtualenv activate it using **source ~/IWPAA/bin/activate** otherwise open terminal and type **python** to open python console.

- **import keras**
- **import tensorflow as tf**
- **import pandas as pd**

None of the above calls should throw any error or warning.