

Assignment 2 Installation Instructions

To be able to do the deep learning part of the assignment you will require following packages:

- Jupyter notebook (v4 or later)
- Tensorflow (v1 or later)
- Keras (v2 or later)
- Python 3 (3.7 is most stable)
- Matplotlib (v1.4 or later)
- Scipy (v0.16 or later)
- Numpy (v1.1 or later)
- Scikit-learn (v0.15 or later)
- Pandas (v 0.16 or later)

The recommended way to install all the required packages and their dependencies is to use Miniconda. You can follow the following instructions to get your setup ready:

- Install Miniconda suitable for your OS. You will need the Python 3.7, 64 bit version. Miniconda and its installation instruction can be found in the following website: <https://docs.conda.io/en/latest/miniconda.html>. If given the option, select to install “only for this user” to avoid the need to run the anaconda prompt as administrator.
- If using Windows launch an Anaconda Prompt (type in anaconda to the “search programs and files” at the start menu) and type at the prompt, or if using Linux or MacOS type into a standard terminal:

```
conda install jupyter matplotlib pandas scipy scikit-learn
```
- Install keras and tensorflow with conda-forge by typing

```
conda install keras tensorflow
```

Finally, open the ipython notebook example provided:

- Type

```
cd path/to/files
jupyter notebook
```

where of course “path/to/files” is the directory path where your assignment files are stored. A successful execution of the provided ipynb file will ensure that your setup is correct.