

# Exercise Sheet 1

Very Deep Learning WS 2018/2019

Deadline: November 4th, 2018

## 1 Getting started

If you want to use your own computer, install Anaconda3 or pure Python 3.6 and following packages which will be necessary to solve this and the following exercise sheets:

- numpy
- sklearn
- pandas
- tensorflow (or tensorflow-gpu if you have a CUDA enabled GPU)
- keras
- matplotlib
- jupyter

Alternatively, you can use the MindGarage computers which should have all required packages installed.

## 2 Introduction to useful Frameworks

### 2.1 Load the exercise sheet

Start a Jupyter Notebook server. In Linux, this is done by typing *jupyter notebook* in a shell. Navigate to *exercise\_1.ipynb* and start it.

### 2.2 Fill in the sheet

Solve the exercise sheet by filling in the missing code. Here are some tutorials that you might find helpful:

- <https://pandas.pydata.org/pandas-docs/stable/tutorials.html>
- [https://www.tensorflow.org/tutorials/keras/basic\\_classification](https://www.tensorflow.org/tutorials/keras/basic_classification)
- [https://matplotlib.org/users/pyplot\\_tutorial.html](https://matplotlib.org/users/pyplot_tutorial.html)