

1 Setting Up Tensorflow and Keras

We will be utilizing Python programming language along with Tensorflow [1] and the Keras [2] application programming interface (API) for our machine learning adventures.

Installing Tensorflow is usually done using pip. See the detailed instructions in the install page of Tensorflow at

<https://www.tensorflow.org/install>.

Once that is done, you should be able to simply import Keras via:

```
from tensorflow import keras
```

You can also Google and find out what works for you depending on how you have installed your original Python interpreter. For example, I have the following (different) lines in my Jupyter Notebook to import the Keras functions I need:

```
import tensorflow
import tensorflow.python.keras

from tensorflow.python.keras.models import Sequential
from tensorflow.python.keras.layers import Dense
```

To become familiar with Keras, you may read the part under “Building Neural Network” in *Building our first neural network in keras* by S. Tanwar at

<https://towardsdatascience.com/building-our-first-neural-network-in-keras-bdc8abbc17f5>

Do not worry about doing an actual training, or importing of the data as instructed in the above link. We’ll be doing something much simpler next. Another useful document is the Keras website itself at

<https://keras.io/about/>.