# Workshop 1

In this workshop you will be creating a MLP in Python “from scratch”. In future, we will be using Keras for creating neural networks, but it’s worth doing it from scratch at least once in your life.

Before you start, you should be familiar with basic Python – especially Lists and Dictionaries.

## Getting Started

1. Open the Python editor Spyder and write a quick “hello world” application.
2. Start working through the following tutorial: <http://machinelearningmastery.com/implement-backpropagation-algorithm-scratch-python/>   
   Take your time and ask questions if there are steps you don’t understand.
3. Instead of working through the “Extensions” section:
   1. Try tuning parameters
   2. Try training your network on the Pima Indians Diabetes data set available here: <https://archive.ics.uci.edu/ml/datasets/pima+indians+diabetes>
   3. Re-tune your network for the new dataset