

Computer Science & Information Systems

Deep Learning - Lab sheet - Module 1

Exercise 1 - Introduction to Tensorflow

1 Objective

The objective is to

- install Tensorflow and Keras library.
- \bullet understand Tensorflow library.

2 Installation

2.1 Check if the following libraries are installed

- scipy
- numpy
- matplotlib
- pandas
- statsmodels
- scikit-learn

2.2 Install Tensorflow

• pip install -c conda-forge tensorflow

2.3 Install Keras

• pip install keras

3 Tensorflow

• Compute the function using Tensorflow library.

$$f(x,y) = x^2 + y + 2$$

4 Expected Results

- Tensorflow was installed correctly.
- Evaluate a function using Tensorflow.
- View the Tensor graph.