Coding Tutorial

October 30, 2020

1 Introduction to TensorFlow

1.1 Coding tutorials

Section ??

```
## Hello TensorFlow!
In [1]: # Import TensorFlow
        import tensorflow as tf
In [2]: # Check its version
        tf.__version__
Out[2]: '2.0.0'
In [3]: # Train a feedforward neural network for image classification
        import numpy as np
        print('Loading data...\n')
        data = np.loadtxt('./data/mnist.csv', delimiter=',')
        print('MNIST dataset loaded.\n')
        x_train = data[:, 1:]
        y_train = data[:, 0]
        x_{train} = x_{train}/255.
        model = tf.keras.models.Sequential([
          tf.keras.layers.Dense(16, activation='relu'),
          tf.keras.layers.Dense(10, activation='softmax')
        ])
        model.compile(optimizer='adam',
```