Tensorflow lesson lab

For learning Tensorflow lab.

Install

Supported Python version

- Python version used in this project: 3.5+

Libraries used

- Pandas-1.0.1
- Numpy-1.16.4
- TensorFlow-CPU

Quick Start

python main.py

Lab Description

– **Lab 01** –

1. Create simple model to demonstrate tensorflow working flow.
2. Train a model to preset linear formula. [y = 9.5*x + 2.7].

– **Lab 02** –

1. Create simple model to demonstrate tensorflow working flow.
2. Train a model to preset linear formula. [y = 9.5*x + 2.7].
3. Use normalize methodology to scale(transform) data in range(-1, 1).
4. Use MSE as loss function to do training
5. Use the model trained during step 2 to predict 20 pair of data.
6. Use RMSE to verify the prediction results.

– **Lab 03** –

1. Extend the Lab 02, create more complex NN model.
2. Demonstrate that how to build multi-layer neural network.

– **Lab 04** –

1. Use tf saver module to demonstrate saving trained model as metadata file.
2. Use tf saver module to demonstrate restoring model from metadata file.

– **Sample Project - StockPredictor** –

– To predict the stock close price of next day.