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tgjeon / **TensorFlow-Tutorials-for-Time-Series**

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TensorFlow Tutorial for Time Series Prediction

tensorflow-tutorials series-prediction rnn

26 commits **1** branch **1** release **1** contributor MIT

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tgjeon committed on **GitHub** Update README.md — Latest commit ae46960 on 6 Oct 2016

KSC2016 - Recurrent Neural Networks.pptx	Add files via upload	8 months ago
LICENSE	Add files via upload	8 months ago
README.md	Update README.md	8 months ago
RealMarketPriceDataPT.csv	EPF price data	9 months ago
gp-for-sine-wave.ipynb	Add files via upload	a year ago
gp-for-sine-wave.py	Add files via upload	a year ago
lstm-for-epf.py	Add files via upload	a year ago
lstm-for-sine-wave.ipynb	Update lstm-for-sine-wave.ipynb	a year ago
lstm-for-sine-wave.py	Add files via upload	a year ago
lstm_predictor.py	Add files via upload	a year ago
mnist-rnn.ipynb	Add files via upload	8 months ago

README.md

TensorFlow Tutorial for Time Series Prediction

This tutorial is designed to easily learn TensorFlow for time series prediction. Each tutorial subject includes both code and notebook with descriptions.

Tutorial Index

MNIST classification using Recurrent Neural Networks (RNN)

- Classification for MNIST using RNN (notebook)

Time series prediction using Recurrent Neural Networks (RNN)

- Prediction for sine wave function using Gaussian process (code / notebook)
- Prediction for sine wave function using RNN (code / notebook)
- Prediction for electricity price (code / notebook)

Slide materials

- Slides on slideshare (TensorFlow-KR Meetup)
- Slides on github (KSC 2016 Tutorial)

Dependencies

```
Python (3.4.4)
```

```
TensorFlow (r0.9)
numpy (1.11.1)
pandas (0.16.2)
cuda (to run examples on GPU)
```

Dataset

- Energy Price Forecast 2016: http://complatt.smartwatt.net
- Or use the uploaded csv file for price history for 2015.

Current issues

- `tf:split_squeeze` is deprecated and will be removed after 2016-08-01. Use `tf.unpack` instead.
- `tf:dnn` is deprecated and will be removed after 2016-08-01. Use `tf.contrib.layers.stack` instead.

Now I am working on modifying previous source code for tensorflow ver. 0.10.0rc0.

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