STUDYPE

Predicting Financial Time Series using Deep Learning

Module 1. Google Colaboratory

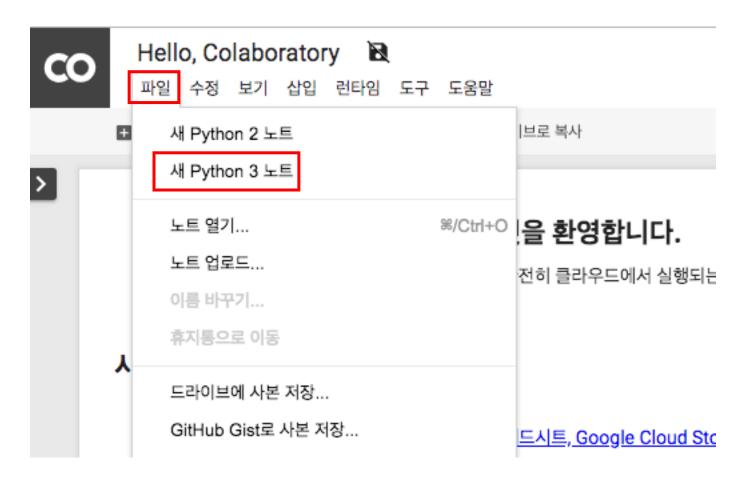
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"Hello World" on Colab

Access to URL: https://colab.research.google.com/notebooks/welcome.ipynb#recent=true





"Hello World" on Colab



- print("Hello World")
- Click button or type "CTRL + ENTER"

Run Keras on Google Colab

Code URL: https://github.com/jonghkim/financial-time-series-prediction/blob/master/Module1/Hands-on-Labs/Lab2_Keras.ipynb

This is keras tutorial code from pythonprogramming

https://pythonprogramming.net/introduction-deep-learning-python-tensorflow-keras/

```
In [ ]: import tensorflow as tf # deep learning library. Tensors are just multi-dimensional arrays
import matplotlib.pyplot as plt
%matplotlib inline
```

keras MNIST data load

Fully Connected Neural Net Model

```
In []: model = tf.keras.models.Sequential()  # a basic feed-forward model
   model.add(tf.keras.layers.Flatten())  # takes our 28x28 and makes it 1x784
   model.add(tf.keras.layers.Dense(128, activation=tf.nn.relu))  # a simple fully-connected layer, 12
   8 units, relu activation
   model.add(tf.keras.layers.Dense(128, activation=tf.nn.relu))  # a simple fully-connected layer, 12
```



Thank you ©

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Appendix 1. Google Colaboratoy Useful Shortcuts

Actions	Colab	Jupyter
show keyboard shortcuts	Ctrl/Cmd M H	Н
Insert code cell above	Ctrl/Cmd M A	A
Insert code cell below	Ctrl/Cmd M B	В
Delete cell/selection	Ctrl/Cmd M D	DD
Interrupt execution	Ctrl/Cmd M I	II
Convert to code cell	Ctrl/Cmd M Y	Y
Convert to text cell	Ctrl/Cmd M M	M
Split at cursor	Ctrl/Cmd M -	Ctrl Shift -

