

# Predicting Financial Time Series using Deep Learning

## Module1. Google Colaboratory

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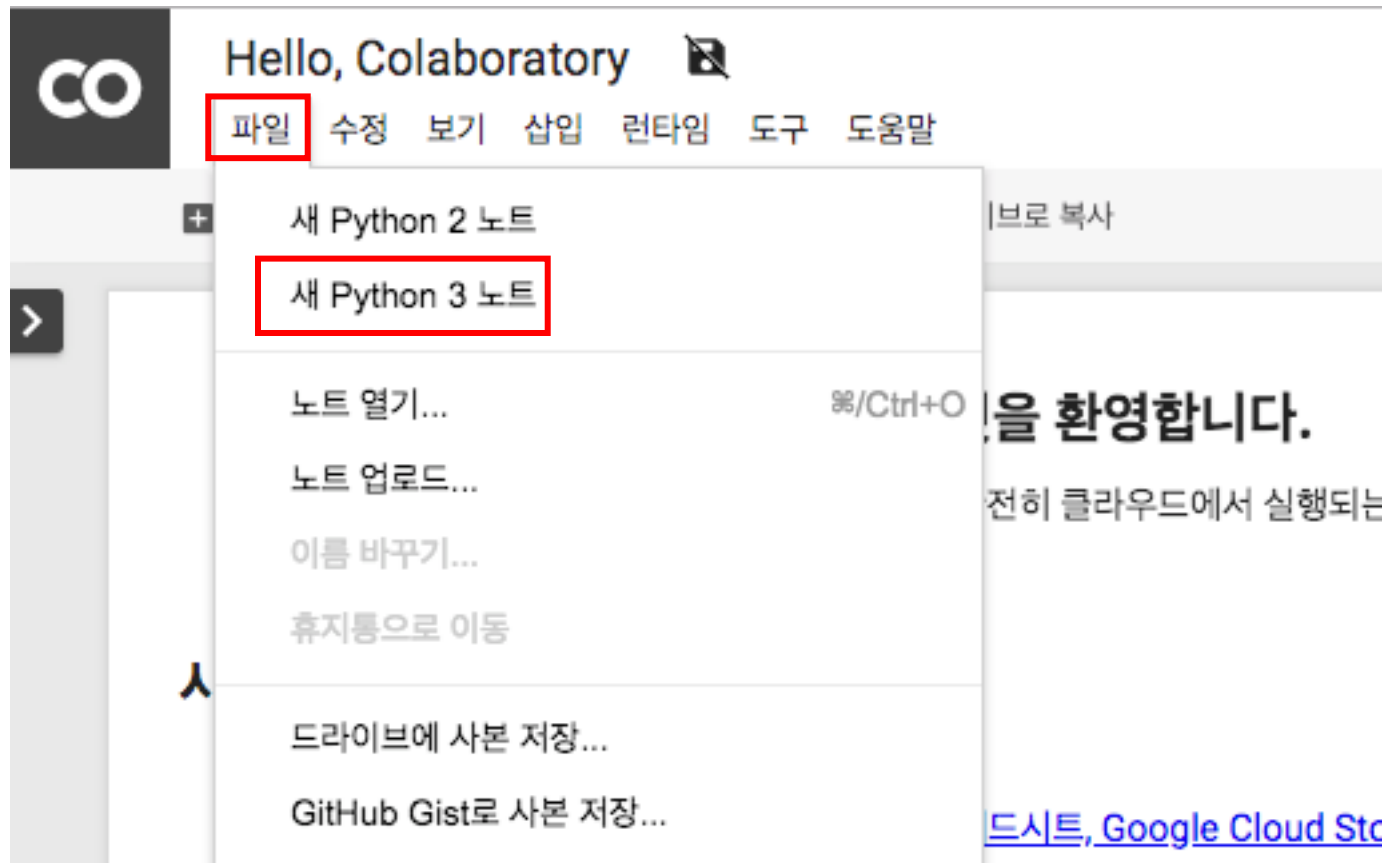
NICE Pricing & Information Inc.

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Note. This content mainly refers the summer session of KAIST organized by Jiyong Park(2018)

# Hello World on Colab

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



# Hello World on Colab

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A screenshot of a Google Colab code cell. The top bar is grey with a black play button icon. The code area shows the text `print("Hello World")` in a monospace font, with the opening quote in blue and the rest in red. Below the code area, the output is displayed as `Hello World` in a monospace font, preceded by a small icon of a document with an arrow.

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

# File Upload on Colab

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Access to URL: <https://colab.research.google.com/notebooks/io.ipynb>

```
▶ from google.colab import files  
uploaded = files.upload()  
  
for fn in uploaded.keys():  
    print('User uploaded file "{name}" with length {length} bytes'.format(  
        name=fn, length=len(uploaded[fn])))
```



파일 선택

선택된 파일 없음

Cancel upload

# Google Drive Access on Colab

- First Step: Upload your data on Google Drive

<http://drive.google.com>

- **Second Step: Enter Authentication Code on Google Colab**

from google.colab import drive  
drive.mount('/content/gdrive').

... Go to this URL in a browser: [https://accounts.google.com/o/oauth2/authorize?client\\_id=...](https://accounts.google.com/o/oauth2/authorize?client_id=...) • Go to Url

Enter your authorization code:

• Type Code

# Check Data Available on Google Drive

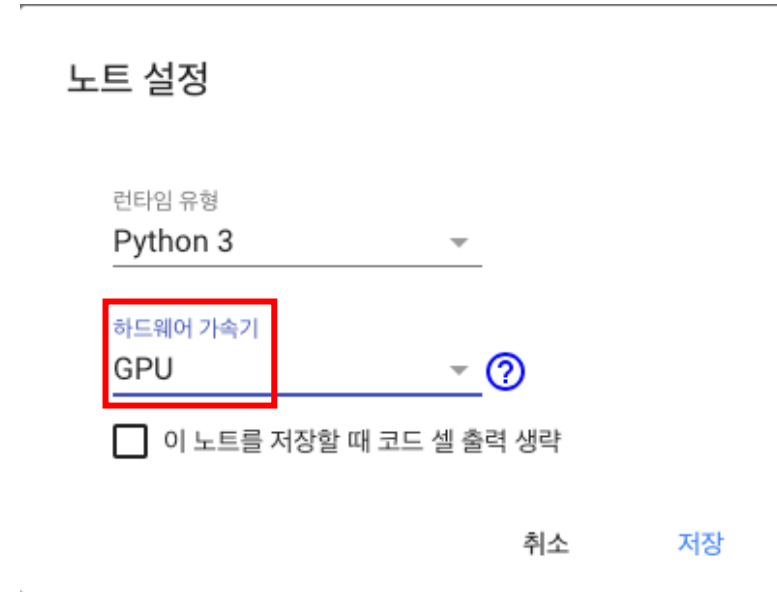
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- `!ls "/content/gdrive/My Drive/"`

```
[ ] !ls "/content/gdrive/My Drive/Lecture/StudyPie/Data"
```

```
↳ crypto_data.zip  kagglecatsanddogs_3367a.zip  PetImages.zip
```

# Set GPU on Colab



# Google Colaboratoy Useful Shortcuts

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Actions	Colab	Jupyter
show keyboard shortcuts	Ctrl/Cmd M H	H
Insert code cell above	Ctrl/Cmd M A	A
Insert code cell below	Ctrl/Cmd M B	B
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 -



Thank you ☺

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