STUDYPE

Predicting Financial Time Series using Deep Learning

Module2. Tensorboard on Google Colab

Jongho Kim

NICE Pricing & Information Inc.

Fall, 2018



Hands on Labs Tensorboard on Google Colab







Tensorbard on Google Colab

 $Lab2_Tensorboard_on_Google_Colab.ipynb$

https://colab.research.google.com/drive/1a4FunGwLD3uV3q2lI8fAihBZ9LYWGGfU



Tensorboard on Colab



Install Ngrok

```
!wget https://bin.equinox.io/c/4VmDzA7iaHb/ngrok-stable-linux-amd64.zip
!unzip ngrok-stable-linux-amd64.zip
```

Run Tensorboard

```
LOG_DIR = './log'
get_ipython().system_raw(
    'tensorboard --logdir {} --host 0.0.0.0 --port 6006 &'
    .format(LOG_DIR)
)
```

Run Ngrok

```
get_ipython().system_raw('./ngrok http 6006 &')
```

Tensorboard on Colab



Get Url: You can check the result in Url

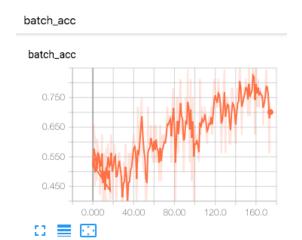
```
!curl -s http://localhost:4040/api/tunnels | python3 -c \
    "import sys, json; print(json.load(sys.stdin)['tunnels'][0]['public_url'])"
https://39eb00f7.ngrok.io
```

Run a Keras Model

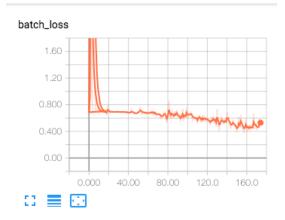
```
from tensorflow.keras.callbacks import TensorBoard
```

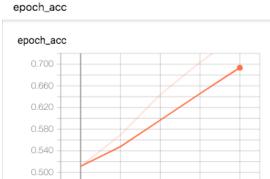
Tensorboard on Colab









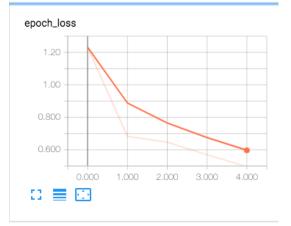


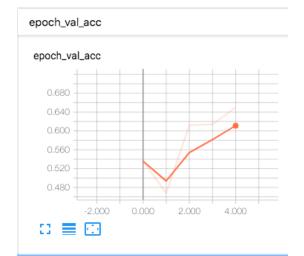
1.000

2.000

epoch_loss

E3 🗮 🖭











Thank you ©

Contact Info: quantic.jh@gmail.com

References

• Quick guide to run TensorBoard in Google Colab, https://www.dlology.com/blog/quick-guide-to-run-tensorboard-in-google-colab/, 2018