

# Untitled19

November 5, 2021

```
[1]: import os
import random as rnd

# import relevant libraries
import trax

# set random seeds to make this notebook easier to replicate
trax.supervised.trainer_lib.init_random_number_generators(31)

# import trax.fastmath.numpy
import trax.fastmath.numpy as np

# import trax.layers
from trax import layers as tl

# import Layer from the utils.py file
from utils import Layer, load_tweets, process_tweet
#from utils import
```

```
-----
AttributeError                                Traceback (most recent call last)
/tmp/ipykernel_835886/293355416.py in <module>
     6
     7 # set random seeds to make this notebook easier to replicate
----> 8 trax.supervised.trainer_lib.init_random_number_generators(31)
     9
    10 # import trax.fastmath.numpy

AttributeError: module 'trax.supervised.trainer_lib' has no attribute
↳ 'init_random_number_generators'
```

```
[2]: pip freeze | grep trax
```

```
trax==1.4.1
```

Note: you may need to restart the kernel to use updated packages.

```
[3]: !python -V
```

Python 3.8.12

```
[4]: pip freeze | grep tensor
```

```
tensorboard==2.6.0
tensorboard-data-server==0.6.1
tensorboard-plugin-wit==1.8.0
tensorflow==2.6.2
tensorflow-datasets==4.3.0
tensorflow-estimator @ file:///home/builder/adipietro/tf/tensorflow-
estimator_1630508970172/work/tensorflow_estimator-2.6.0-py2.py3-none-any.whl
tensorflow-hub==0.12.0
tensorflow-metadata==1.0.0
tensorflow-text==2.6.0
Note: you may need to restart the kernel to use updated packages.
```

```
[5]: pip freeze | grep jax
```

```
jax==0.2.24
jaxlib==0.1.73
Note: you may need to restart the kernel to use updated packages.
```

```
[6]: pip freeze | grep keras
```

```
keras==2.6.0
Keras-Applications @ file:///tmp/build/80754af9/keras-
applications_1594366238411/work
keras-nightly==2.5.0.dev2021032900
Keras-Preprocessing @ file:///tmp/build/80754af9/keras-
preprocessing_1612283640596/work
Note: you may need to restart the kernel to use updated packages.
```

```
[7]: !nvidia-smi
```

Fri Nov 5 04:31:48 2021

```
+-----+
| NVIDIA-SMI 460.91.03      Driver Version: 460.91.03      CUDA Version: 11.2      |
+-----+-----+-----+
| GPU  Name           Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp   Perf   Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compute M. |
|                                           |              | MIG M. |
+=====+=====+=====+
|   0   GeForce GTX 166...  Off   | 00000000:01:00.0  On   |           N/A   |
|  0%   46C    P8     14W / 125W |   515MiB /  5944MiB |    2%      Default |
|                                           |              | N/A   |
+-----+-----+-----+
+-----+
```

Processes:							
GPU	GI	CI	PID	Type	Process name	GPU Memory Usage	
	ID	ID					
0	N/A	N/A	1067	G	/usr/lib/xorg/Xorg	70MiB	
0	N/A	N/A	1583	G	/usr/lib/xorg/Xorg	286MiB	
0	N/A	N/A	1749	G	/usr/bin/gnome-shell	28MiB	
0	N/A	N/A	2445	G	/usr/lib/firefox/firefox	1MiB	
0	N/A	N/A	2527	G	/usr/lib/firefox/firefox	1MiB	
0	N/A	N/A	2565	G	/usr/lib/firefox/firefox	1MiB	
0	N/A	N/A	2579	G	/usr/lib/firefox/firefox	1MiB	
0	N/A	N/A	2615	G	/usr/lib/firefox/firefox	1MiB	
0	N/A	N/A	2692	G	/usr/lib/firefox/firefox	1MiB	
0	N/A	N/A	2733	G	/usr/lib/firefox/firefox	1MiB	
0	N/A	N/A	3190	G	/usr/lib/firefox/firefox	1MiB	
0	N/A	N/A	188327	C	...ffice/program/soffice.bin	65MiB	

[ ]: