

NER-SA

March 11, 2023

0.1 Bi-directional GRU Classifier with fastText embeddings using ktrain package

Original Notebooks: <https://github.com/amaiya/ktrain>

```
[2]: !pip install tensorflow
```

Collecting tensorflow

Downloading

tensorflow-2.11.0-cp37-cp37m-manylinux_2_17_x86_64.manylinux2014_x86_64.whl
(588.3 MB)

588.3/588.3

MB 1.3 MB/s eta 0:00:000:0100:01

Collecting tensorboard<2.12,>=2.11

Downloading tensorboard-2.11.2-py3-none-any.whl (6.0 MB)

6.0/6.0 MB

21.2 MB/s eta 0:00:00:0100:01

Requirement already satisfied: protobuf<3.20,>=3.9.2 in
/opt/conda/lib/python3.7/site-packages (from tensorflow) (3.19.6)

Collecting h5py>=2.9.0

Downloading

h5py-3.8.0-cp37-cp37m-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (4.3 MB)

4.3/4.3 MB

9.2 MB/s eta 0:00:000:00:01

Collecting google-pasta>=0.1.1

Downloading google_pasta-0.2.0-py3-none-any.whl (57 kB)

57.5/57.5 kB

1.7 MB/s eta 0:00:00

Requirement already satisfied: packaging in /opt/conda/lib/python3.7/site-
packages (from tensorflow) (23.0)

Collecting keras<2.12,>=2.11.0

Downloading keras-2.11.0-py2.py3-none-any.whl (1.7 MB)

1.7/1.7 MB

15.6 MB/s eta 0:00:00:00:01

Collecting wrapt>=1.11.0

Downloading wrapt-1.15.0-cp37-cp37m-manylinux_2_5_x86_64.manylinux1_x86_64.man
ylinux_2_17_x86_64.manylinux2014_x86_64.whl (75 kB)

75.7/75.7 kB

```

270.6 kB/s eta 0:00:00a 0:00:01
Collecting astunparse>=1.6.0
  Downloading astunparse-1.6.3-py2.py3-none-any.whl (12 kB)
Requirement already satisfied: numpy>=1.20 in /opt/conda/lib/python3.7/site-
packages (from tensorflow) (1.21.6)
Requirement already satisfied: grpcio<2.0,>=1.24.3 in
/opt/conda/lib/python3.7/site-packages (from tensorflow) (1.51.1)
Collecting opt-einsum>=2.3.2
  Downloading opt_einsum-3.3.0-py3-none-any.whl (65 kB)
                                65.5/65.5 kB

2.6 MB/s eta 0:00:00
Collecting tensorflow-estimator<2.12,>=2.11.0
  Downloading tensorflow_estimator-2.11.0-py2.py3-none-any.whl (439 kB)
                                439.2/439.2

kB 1.8 MB/s eta 0:00:0000:01
Collecting tensorflow-io-gcs-filesystem>=0.23.1
  Downloading tensorflow_io_gcs_filesystem-0.31.0-cp37-cp37m-manylinux_2_12_x86_
64.manylinux2010_x86_64.whl (2.4 MB)
                                2.4/2.4 MB

5.3 MB/s eta 0:00:000:00:01
Collecting termcolor>=1.1.0
  Downloading termcolor-2.2.0-py3-none-any.whl (6.6 kB)
Requirement already satisfied: setuptools in /opt/conda/lib/python3.7/site-
packages (from tensorflow) (66.1.1)
Requirement already satisfied: absl-py>=1.0.0 in /opt/conda/lib/python3.7/site-
packages (from tensorflow) (1.4.0)
Collecting gast<=0.4.0,>=0.2.1
  Downloading gast-0.4.0-py3-none-any.whl (9.8 kB)
Collecting flatbuffers>=2.0
  Downloading flatbuffers-23.3.3-py2.py3-none-any.whl (26 kB)
Requirement already satisfied: typing-extensions>=3.6.6 in
/opt/conda/lib/python3.7/site-packages (from tensorflow) (4.4.0)
Collecting libclang>=13.0.0
  Downloading libclang-15.0.6.1-py2.py3-none-manylinux2010_x86_64.whl (21.5 MB)
                                21.5/21.5 MB

65.8 MB/s eta 0:00:0000:0100:01
Requirement already satisfied: six>=1.12.0 in
/opt/conda/lib/python3.7/site-packages (from tensorflow) (1.16.0)
Requirement already satisfied: wheel<1.0,>=0.23.0 in
/opt/conda/lib/python3.7/site-packages (from astunparse>=1.6.0->tensorflow)
(0.38.4)
Requirement already satisfied: google-auth<3,>=1.6.3 in
/opt/conda/lib/python3.7/site-packages (from
tensorboard<2.12,>=2.11->tensorflow) (2.16.0)
Collecting google-auth-oauthlib<0.5,>=0.4.1
  Downloading google_auth_oauthlib-0.4.6-py2.py3-none-any.whl (18 kB)
Requirement already satisfied: requests<3,>=2.21.0 in

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/opt/conda/lib/python3.7/site-packages (from
tensorboard<2.12,>=2.11->tensorflow) (2.28.2)
Collecting tensorboard-plugin-wit>=1.6.0
  Downloading tensorboard_plugin_wit-1.8.1-py3-none-any.whl (781 kB)
      781.3/781.3 kB
54.2 MB/s eta 0:00:00
Collecting tensorboard-data-server<0.7.0,>=0.6.0
  Downloading tensorboard_data_server-0.6.1-py3-none-manylinux2010_x86_64.whl
(4.9 MB)
      4.9/4.9 MB
91.9 MB/s eta 0:00:00:00:01
Collecting werkzeug>=1.0.1
  Downloading Werkzeug-2.2.3-py3-none-any.whl (233 kB)
      233.6/233.6 kB
27.4 MB/s eta 0:00:00
Collecting markdown>=2.6.8
  Downloading Markdown-3.4.1-py3-none-any.whl (93 kB)
      93.3/93.3 kB
13.3 MB/s eta 0:00:00
Requirement already satisfied: pyasn1-modules>=0.2.1 in
/opt/conda/lib/python3.7/site-packages (from google-
auth<3,>=1.6.3->tensorboard<2.12,>=2.11->tensorflow) (0.2.8)
Requirement already satisfied: cachetools<6.0,>=2.0.0 in
/opt/conda/lib/python3.7/site-packages (from google-
auth<3,>=1.6.3->tensorboard<2.12,>=2.11->tensorflow) (5.3.0)
Requirement already satisfied: rsa<5,>=3.1.4 in /opt/conda/lib/python3.7/site-
packages (from google-auth<3,>=1.6.3->tensorboard<2.12,>=2.11->tensorflow) (4.9)
Requirement already satisfied: requests-oauthlib>=0.7.0 in
/opt/conda/lib/python3.7/site-packages (from google-auth-
oauthlib<0.5,>=0.4.1->tensorboard<2.12,>=2.11->tensorflow) (1.3.1)
Requirement already satisfied: importlib-metadata>=4.4 in
/opt/conda/lib/python3.7/site-packages (from
markdown>=2.6.8->tensorboard<2.12,>=2.11->tensorflow) (6.0.0)
Requirement already satisfied: charset-normalizer<4,>=2 in
/opt/conda/lib/python3.7/site-packages (from
requests<3,>=2.21.0->tensorboard<2.12,>=2.11->tensorflow) (2.1.1)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/opt/conda/lib/python3.7/site-packages (from
requests<3,>=2.21.0->tensorboard<2.12,>=2.11->tensorflow) (1.26.14)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.7/site-
packages (from requests<3,>=2.21.0->tensorboard<2.12,>=2.11->tensorflow) (3.4)
Requirement already satisfied: certifi>=2017.4.17 in
/opt/conda/lib/python3.7/site-packages (from
requests<3,>=2.21.0->tensorboard<2.12,>=2.11->tensorflow) (2022.12.7)
Requirement already satisfied: MarkupSafe>=2.1.1 in
/opt/conda/lib/python3.7/site-packages (from
werkzeug>=1.0.1->tensorboard<2.12,>=2.11->tensorflow) (2.1.2)
Requirement already satisfied: zipp>=0.5 in /opt/conda/lib/python3.7/site-

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packages (from importlib-
metadata>=4.4->markdown>=2.6.8->tensorboard<2.12,>=2.11->tensorflow) (3.11.0)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in
/opt/conda/lib/python3.7/site-packages (from pyasn1-modules>=0.2.1->google-
auth<3,>=1.6.3->tensorboard<2.12,>=2.11->tensorflow) (0.4.8)
Requirement already satisfied: oauthlib>=3.0.0 in /opt/conda/lib/python3.7/site-
packages (from requests-oauthlib>=0.7.0->google-auth-
oauthlib<0.5,>=0.4.1->tensorboard<2.12,>=2.11->tensorflow) (3.2.2)
Installing collected packages: tensorboard-plugin-wit, libclang, flatbuffers,
wrapit, werkzeug, termcolor, tensorflow-io-gcs-filesystem, tensorflow-estimator,
tensorboard-data-server, opt-einsum, keras, h5py, google-pasta, gast,
astunparse, markdown, google-auth-oauthlib, tensorboard, tensorflow
    Attempting uninstall: google-auth-oauthlib
        Found existing installation: google-auth-oauthlib 0.8.0
        Uninstalling google-auth-oauthlib-0.8.0:
            Successfully uninstalled google-auth-oauthlib-0.8.0
Successfully installed astunparse-1.6.3 flatbuffers-23.3.3 gast-0.4.0 google-
auth-oauthlib-0.4.6 google-pasta-0.2.0 h5py-3.8.0 keras-2.11.0 libclang-15.0.6.1
markdown-3.4.1 opt-einsum-3.3.0 tensorboard-2.11.2 tensorboard-data-server-0.6.1
tensorboard-plugin-wit-1.8.1 tensorflow-2.11.0 tensorflow-estimator-2.11.0
tensorflow-io-gcs-filesystem-0.31.0 termcolor-2.2.0 werkzeug-2.2.3 wrapit-1.15.0

```

```

[3]: import warnings
      # warnings.filterwarnings('ignore')

import pandas as pd
import numpy as np
import re

from sklearn import preprocessing
from sklearn.model_selection import train_test_split

import tensorflow as tf
from keras.preprocessing.text import Tokenizer, text_to_word_sequence

```

```

2023-03-11 05:21:54.414548: I tensorflow/core/platform/cpu_feature_guard.cc:193]
This TensorFlow binary is optimized with oneAPI Deep Neural Network Library
(oneDNN) to use the following CPU instructions in performance-critical
operations:  AVX2 FMA
To enable them in other operations, rebuild TensorFlow with the appropriate
compiler flags.
2023-03-11 05:21:57.769230: W
tensorflow/compiler/xla/stream_executor/platform/default/dso_loader.cc:64] Could
not load dynamic library 'libcudart.so.11.0'; dLError: libcudart.so.11.0: cannot
open shared object file: No such file or directory
2023-03-11 05:21:57.769266: I
tensorflow/compiler/xla/stream_executor/cuda/cudart_stub.cc:29] Ignore above
cudart dLError if you do not have a GPU set up on your machine.

```

```

2023-03-11 05:22:07.441392: W
tensorflow/compiler/xla/stream_executor/platform/default/dso_loader.cc:64] Could
not load dynamic library 'libnvinfer.so.7'; dlerror: libnvinfer.so.7: cannot
open shared object file: No such file or directory
2023-03-11 05:22:07.445368: W
tensorflow/compiler/xla/stream_executor/platform/default/dso_loader.cc:64] Could
not load dynamic library 'libnvinfer_plugin.so.7'; dlerror:
libnvinfer_plugin.so.7: cannot open shared object file: No such file or
directory
2023-03-11 05:22:07.445403: W
tensorflow/compiler/tf2tensorrt/utils/py_utils.cc:38] TF-TRT Warning: Cannot
dlopen some TensorRT libraries. If you would like to use Nvidia GPU with
TensorRT, please make sure the missing libraries mentioned above are installed
properly.

```

Check for GPU presence

```

[4]: #Verify we got CPU + GPU or only CPU
tf.config.list_physical_devices()

```

```

2023-03-11 05:22:13.094731: W
tensorflow/compiler/xla/stream_executor/platform/default/dso_loader.cc:64] Could
not load dynamic library 'libcuda.so.1'; dlerror: libcuda.so.1: cannot open
shared object file: No such file or directory
2023-03-11 05:22:13.114093: W
tensorflow/compiler/xla/stream_executor/cuda/cuda_driver.cc:265] failed call to
cuInit: UNKNOWN ERROR (303)
2023-03-11 05:22:13.114193: I
tensorflow/compiler/xla/stream_executor/cuda/cuda_diagnostics.cc:156] kernel
driver does not appear to be running on this host (python-20230307-192621):
/proc/driver/nvidia/version does not exist

```

```

[4]: [PhysicalDevice(name='/physical_device:CPU:0', device_type='CPU')]

```

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[3]: !nvidia-smi

```

```

/bin/bash: nvidia-smi: command not found

```

```

[8]: !pip install ktrain

```

```

Collecting ktrain
  Downloading ktrain-0.33.2.tar.gz (25.3 MB)
                                25.3/25.3 MB
42.2 MB/s eta 0:00:0000:0100:01
  Preparing metadata (setup.py) ... done
Requirement already satisfied: scikit-learn in
/opt/conda/lib/python3.7/site-packages (from ktrain) (1.0.2)
Requirement already satisfied: matplotlib>=3.0.0 in
/opt/conda/lib/python3.7/site-packages (from ktrain) (3.5.3)

```

Requirement already satisfied: pandas>=1.0.1 in /opt/conda/lib/python3.7/site-packages (from ktrain) (1.3.5)

Collecting fastprogress>=0.1.21

 Downloading fastprogress-1.0.3-py3-none-any.whl (12 kB)

Requirement already satisfied: requests in /opt/conda/lib/python3.7/site-packages (from ktrain) (2.28.2)

Requirement already satisfied: joblib in /opt/conda/lib/python3.7/site-packages (from ktrain) (1.2.0)

Requirement already satisfied: packaging in /opt/conda/lib/python3.7/site-packages (from ktrain) (23.0)

Collecting langdetect

 Downloading langdetect-1.0.9.tar.gz (981 kB)

 981.5/981.5 kB

52.2 MB/s eta 0:00:00

 Preparing metadata (setup.py) ... done

Collecting jieba

 Downloading jieba-0.42.1.tar.gz (19.2 MB)

 19.2/19.2 MB

73.2 MB/s eta 0:00:0000:0100:01

 Preparing metadata (setup.py) ... done

Collecting cchardet

 Downloading cchardet-2.1.7-cp37-cp37m-manylinux2010_x86_64.whl (263 kB)

 263.7/263.7 kB

30.5 MB/s eta 0:00:00

Collecting chardet

 Downloading chardet-5.1.0-py3-none-any.whl (199 kB)

 199.1/199.1 kB

23.2 MB/s eta 0:00:00

Collecting syntok>1.3.3

 Downloading syntok-1.4.4-py3-none-any.whl (24 kB)

Collecting transformers>=4.17.0

 Downloading transformers-4.26.1-py3-none-any.whl (6.3 MB)

 6.3/6.3 MB

78.7 MB/s eta 0:00:00:00:0100:01

Collecting sentencepiece

 Downloading sentencepiece-0.1.97-cp37-cp37m-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (1.3 MB)

 1.3/1.3 MB

59.6 MB/s eta 0:00:00

Collecting keras_bert>=0.86.0

 Downloading keras-bert-0.89.0.tar.gz (25 kB)

 Preparing metadata (setup.py) ... done

Collecting whoosh

 Downloading Whoosh-2.7.4-py2.py3-none-any.whl (468 kB)

 468.8/468.8 kB

41.3 MB/s eta 0:00:00

Requirement already satisfied: numpy in /opt/conda/lib/python3.7/site-

```

packages (from keras_bert>=0.86.0->ktrain) (1.21.6)
Collecting keras-transformer==0.40.0
  Downloading keras-transformer-0.40.0.tar.gz (9.7 kB)
  Preparing metadata (setup.py) ... done
Collecting keras-pos-embd==0.13.0
  Downloading keras-pos-embd-0.13.0.tar.gz (5.6 kB)
  Preparing metadata (setup.py) ... done
Collecting keras-multi-head==0.29.0
  Downloading keras-multi-head-0.29.0.tar.gz (13 kB)
  Preparing metadata (setup.py) ... done
Collecting keras-layer-normalization==0.16.0
  Downloading keras-layer-normalization-0.16.0.tar.gz (3.9 kB)
  Preparing metadata (setup.py) ... done
Collecting keras-position-wise-feed-forward==0.8.0
  Downloading keras-position-wise-feed-forward-0.8.0.tar.gz (4.1 kB)
  Preparing metadata (setup.py) ... done
Collecting keras-embed-sim==0.10.0
  Downloading keras-embed-sim-0.10.0.tar.gz (3.6 kB)
  Preparing metadata (setup.py) ... done
Collecting keras-self-attention==0.51.0
  Downloading keras-self-attention-0.51.0.tar.gz (11 kB)
  Preparing metadata (setup.py) ... done
Requirement already satisfied: pyparsing>=2.2.1 in
/opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (3.0.9)
Requirement already satisfied: kiwisolver>=1.0.1 in
/opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (1.4.4)
Requirement already satisfied: cyclor>=0.10 in /opt/conda/lib/python3.7/site-
packages (from matplotlib>=3.0.0->ktrain) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in
/opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (4.38.0)
Requirement already satisfied: python-dateutil>=2.7 in
/opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (2.8.2)
Requirement already satisfied: pillow>=6.2.0 in /opt/conda/lib/python3.7/site-
packages (from matplotlib>=3.0.0->ktrain) (9.4.0)
Requirement already satisfied: pytz>=2017.3 in /opt/conda/lib/python3.7/site-
packages (from pandas>=1.0.1->ktrain) (2022.7.1)
Requirement already satisfied: regex>2016 in /opt/conda/lib/python3.7/site-
packages (from syntok>1.3.3->ktrain) (2022.10.31)
Requirement already satisfied: pyyaml>=5.1 in /opt/conda/lib/python3.7/site-
packages (from transformers>=4.17.0->ktrain) (6.0)
Requirement already satisfied: filelock in /opt/conda/lib/python3.7/site-
packages (from transformers>=4.17.0->ktrain) (3.9.0)
Collecting tokenizers!=0.11.3,<0.14,>=0.11.1
  Downloading
tokenizers-0.13.2-cp37-cp37m-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (7.6
MB)

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7.6/7.6 MB

94.5 MB/s eta 0:00:00:00:0100:01


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Requirement already satisfied: importlib-metadata in
/opt/conda/lib/python3.7/site-packages (from transformers>=4.17.0->ktrain)
(6.0.0)
Collecting huggingface-hub<1.0,>=0.11.0
  Downloading huggingface_hub-0.13.1-py3-none-any.whl (199 kB)
                                199.2/199.2 kB
23.2 MB/s eta 0:00:00
Requirement already satisfied: tqdm>=4.27 in
/opt/conda/lib/python3.7/site-packages (from transformers>=4.17.0->ktrain)
(4.64.1)
Requirement already satisfied: six in /opt/conda/lib/python3.7/site-packages
(from langdetect->ktrain) (1.16.0)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/opt/conda/lib/python3.7/site-packages (from requests->ktrain) (1.26.14)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.7/site-
packages (from requests->ktrain) (3.4)
Requirement already satisfied: charset-normalizer<4,>=2 in
/opt/conda/lib/python3.7/site-packages (from requests->ktrain) (2.1.1)
Requirement already satisfied: certifi>=2017.4.17 in
/opt/conda/lib/python3.7/site-packages (from requests->ktrain) (2022.12.7)
Requirement already satisfied: threadpoolctl>=2.0.0 in
/opt/conda/lib/python3.7/site-packages (from scikit-learn->ktrain) (3.1.0)
Requirement already satisfied: scipy>=1.1.0 in /opt/conda/lib/python3.7/site-
packages (from scikit-learn->ktrain) (1.7.3)
Requirement already satisfied: typing-extensions>=3.7.4.3 in
/opt/conda/lib/python3.7/site-packages (from huggingface-
hub<1.0,>=0.11.0->transformers>=4.17.0->ktrain) (4.4.0)
Requirement already satisfied: zipp>=0.5 in /opt/conda/lib/python3.7/site-
packages (from importlib-metadata->transformers>=4.17.0->ktrain) (3.11.0)
Building wheels for collected packages: ktrain, keras_bert, keras-transformer,
keras-embed-sim, keras-layer-normalization, keras-multi-head, keras-pos-embd,
keras-position-wise-feed-forward, keras-self-attention, jieba, langdetect
  Building wheel for ktrain (setup.py) ... done
  Created wheel for ktrain: filename=ktrain-0.33.2-py3-none-any.whl
size=25313824
sha256=5895034cb1cdedd1c2b14e5e40f70783746410331d4203d4c83f98ee2415a4e4
  Stored in directory: /home/jupyter/.cache/pip/wheels/2b/3e/e2/ac8b0795ae6c2271
992501a01cfeaf0530951763c3077b8a7b
  Building wheel for keras_bert (setup.py) ... done
  Created wheel for keras_bert: filename=keras_bert-0.89.0-py3-none-
any.whl size=33501
sha256=074d386d631db2598de4745b97371bad0a9527e47768c4c998fd6a3fc867432b
  Stored in directory: /home/jupyter/.cache/pip/wheels/e8/03/69/f1e19e8d13692ff5
b8c928a2b2f418d1dcb6b36632460829bd
  Building wheel for keras-transformer (setup.py) ... done
  Created wheel for keras-transformer:
filename=keras_transformer-0.40.0-py3-none-any.whl size=12287
sha256=cdaa2b3ec4d3eb231f8c27e8604b73f51eb6650230c0b4c8ad7018270c29f24d

```


Stored in directory: /home/jupyter/.cache/pip/wheels/37/a3/bf/5f13470e6ff570a9fecc90d4e24ce34d2ee8b0af43c5333fb0

Building wheel for keras-embed-sim (setup.py) ... done

Created wheel for keras-embed-sim:

filename=keras_embed_sim-0.10.0-py3-none-any.whl size=3944

sha256=97243c24999e54a7ac2ffc649506dc14b5d90ea708f2fbab1d3e2dba85106530

Stored in directory: /home/jupyter/.cache/pip/wheels/86/9b/da/cb6fd22132e3675cde24c5b6f45b94671768fb008cc18cd28b

Building wheel for keras-layer-normalization (setup.py) ... done

Created wheel for keras-layer-normalization:

filename=keras_layer_normalization-0.16.0-py3-none-any.whl size=4655

sha256=c002537b442dd7cdfa1985f3c564ab43dc9125f6c2d0d44a3bb3b1a68d545cf2

Stored in directory: /home/jupyter/.cache/pip/wheels/41/f3/10/985c450e02ed9288fbc5145e90e4726ae95399eaa612a55ee2

Building wheel for keras-multi-head (setup.py) ... done

Created wheel for keras-multi-head:

filename=keras_multi_head-0.29.0-py3-none-any.whl size=14979

sha256=270b2ce034503127a27c3f5eea8c8ca57730c46d0a2a2e832d4b38c8b0d78417

Stored in directory: /home/jupyter/.cache/pip/wheels/02/39/c6/cea85ac5607211c0257754802e9fce5ffc26b4f5fcff351d03

Building wheel for keras-pos-embd (setup.py) ... done

Created wheel for keras-pos-embd:

filename=keras_pos_embd-0.13.0-py3-none-any.whl size=6946

sha256=6b783bb37b7e7e7cdeee628ba5f5175d49e751685665ea7e4236b80b7c27fe1e

Stored in directory: /home/jupyter/.cache/pip/wheels/d7/b1/1f/f39f885f243122c1fb6470bda0827f13c67b58700e71225331

Building wheel for keras-position-wise-feed-forward (setup.py) ... done

Created wheel for keras-position-wise-feed-forward:

filename=keras_position_wise_feed_forward-0.8.0-py3-none-any.whl size=4968

sha256=f03b1dceb635398f3266a6798b1b0c98ba5cdf5682ccc32d0e96a87048296169

Stored in directory: /home/jupyter/.cache/pip/wheels/51/d9/ab/db6f4394b1167248c9e66b932025cd713899fd531f17bb6a92

Building wheel for keras-self-attention (setup.py) ... done

Created wheel for keras-self-attention:

filename=keras_self_attention-0.51.0-py3-none-any.whl size=18892

sha256=dcb2fdb1b7642e7ef47ef5292406cd647e45bba670777c7fd301a22df1b92c1b

Stored in directory: /home/jupyter/.cache/pip/wheels/cb/26/00/2d79e29156bddf85b6c2bccecf43fcb024fb935e3d7a933684

Building wheel for jieba (setup.py) ... done

Created wheel for jieba: filename=jieba-0.42.1-py3-none-any.whl size=19314458

sha256=da1dde0c02d7a27abd9d730e1db46fcba1c05e8abb577b522f6664fd54fa943e

Stored in directory: /home/jupyter/.cache/pip/wheels/db/52/18/8bcb952dbe08a07ad986c94a1ccca7d5cdd02746bd60d3e846

Building wheel for langdetect (setup.py) ... done

Created wheel for langdetect: filename=langdetect-1.0.9-py3-none-any.whl size=993225

sha256=debfd16273f2764cc1164f63bd2fcf21ced3c729c0a99a991c45a134cd0683b6

Stored in directory: /home/jupyter/.cache/pip/wheels/73/b2/db/0c9b9eb7a44bf85ec0b42c06ee617d0a0de66840dc0b3248d1

Successfully built ktrain keras_bert keras-transformer keras-embed-sim keras-layer-normalization keras-multi-head keras-pos-embd keras-position-wise-feed-forward keras-self-attention jieba langdetect

Installing collected packages: whoosh, tokenizers, sentencepiece, jieba, cchardet, syntok, langdetect, keras-self-attention, keras-position-wise-feed-forward, keras-pos-embd, keras-layer-normalization, keras-embed-sim, fastprogress, chardet, keras-multi-head, huggingface-hub, transformers, keras-transformer, keras_bert, ktrain

Successfully installed cchardet-2.1.7 chardet-5.1.0 fastprogress-1.0.3 huggingface-hub-0.13.1 jieba-0.42.1 keras-embed-sim-0.10.0 keras-layer-normalization-0.16.0 keras-multi-head-0.29.0 keras-pos-embd-0.13.0 keras-position-wise-feed-forward-0.8.0 keras-self-attention-0.51.0 keras-transformer-0.40.0 keras_bert-0.89.0 ktrain-0.33.2 langdetect-1.0.9 sentencepiece-0.1.97 syntok-1.4.4 tokenizers-0.13.2 transformers-4.26.1 whoosh-2.7.4

```
[5]: # import ktrain
import ktrain
from ktrain import text
```

```
[4]: !pip install ktrain --upgrade
```

Requirement already satisfied: ktrain in /opt/conda/lib/python3.7/site-packages (0.33.2)

Requirement already satisfied: packaging in /opt/conda/lib/python3.7/site-packages (from ktrain) (23.0)

Requirement already satisfied: cchardet in /opt/conda/lib/python3.7/site-packages (from ktrain) (2.1.7)

Requirement already satisfied: syntok>1.3.3 in /opt/conda/lib/python3.7/site-packages (from ktrain) (1.4.4)

Requirement already satisfied: scikit-learn in /opt/conda/lib/python3.7/site-packages (from ktrain) (1.0.2)

Requirement already satisfied: sentencepiece in /opt/conda/lib/python3.7/site-packages (from ktrain) (0.1.97)

Requirement already satisfied: langdetect in /opt/conda/lib/python3.7/site-packages (from ktrain) (1.0.9)

Requirement already satisfied: whoosh in /opt/conda/lib/python3.7/site-packages (from ktrain) (2.7.4)

Requirement already satisfied: keras-bert>=0.86.0 in /opt/conda/lib/python3.7/site-packages (from ktrain) (0.89.0)

Requirement already satisfied: pandas>=1.0.1 in /opt/conda/lib/python3.7/site-packages (from ktrain) (1.3.5)

Requirement already satisfied: transformers>=4.17.0 in /opt/conda/lib/python3.7/site-packages (from ktrain) (4.26.1)

Requirement already satisfied: matplotlib>=3.0.0 in /opt/conda/lib/python3.7/site-packages (from ktrain) (3.5.3)

Requirement already satisfied: requests in /opt/conda/lib/python3.7/site-packages (from ktrain) (2.28.2)
Requirement already satisfied: joblib in /opt/conda/lib/python3.7/site-packages (from ktrain) (1.2.0)
Requirement already satisfied: chardet in /opt/conda/lib/python3.7/site-packages (from ktrain) (5.1.0)
Requirement already satisfied: jieba in /opt/conda/lib/python3.7/site-packages (from ktrain) (0.42.1)
Requirement already satisfied: fastprogress>=0.1.21 in /opt/conda/lib/python3.7/site-packages (from ktrain) (1.0.3)
Requirement already satisfied: numpy in /opt/conda/lib/python3.7/site-packages (from keras-bert>=0.86.0->ktrain) (1.21.6)
Requirement already satisfied: keras-transformer==0.40.0 in /opt/conda/lib/python3.7/site-packages (from keras-bert>=0.86.0->ktrain) (0.40.0)
Requirement already satisfied: keras-position-wise-feed-forward==0.8.0 in /opt/conda/lib/python3.7/site-packages (from keras-transformer==0.40.0->keras-bert>=0.86.0->ktrain) (0.8.0)
Requirement already satisfied: keras-pos-embd==0.13.0 in /opt/conda/lib/python3.7/site-packages (from keras-transformer==0.40.0->keras-bert>=0.86.0->ktrain) (0.13.0)
Requirement already satisfied: keras-embed-sim==0.10.0 in /opt/conda/lib/python3.7/site-packages (from keras-transformer==0.40.0->keras-bert>=0.86.0->ktrain) (0.10.0)
Requirement already satisfied: keras-multi-head==0.29.0 in /opt/conda/lib/python3.7/site-packages (from keras-transformer==0.40.0->keras-bert>=0.86.0->ktrain) (0.29.0)
Requirement already satisfied: keras-layer-normalization==0.16.0 in /opt/conda/lib/python3.7/site-packages (from keras-transformer==0.40.0->keras-bert>=0.86.0->ktrain) (0.16.0)
Requirement already satisfied: keras-self-attention==0.51.0 in /opt/conda/lib/python3.7/site-packages (from keras-multi-head==0.29.0->keras-transformer==0.40.0->keras-bert>=0.86.0->ktrain) (0.51.0)
Requirement already satisfied: cycler>=0.10 in /opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (0.11.0)
Requirement already satisfied: pillow>=6.2.0 in /opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (9.4.0)
Requirement already satisfied: fonttools>=4.22.0 in /opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (4.38.0)
Requirement already satisfied: kiwisolver>=1.0.1 in /opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (1.4.4)
Requirement already satisfied: pyparsing>=2.2.1 in /opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (3.0.9)
Requirement already satisfied: python-dateutil>=2.7 in /opt/conda/lib/python3.7/site-packages (from matplotlib>=3.0.0->ktrain) (2.8.2)
Requirement already satisfied: pytz>=2017.3 in /opt/conda/lib/python3.7/site-packages (from pandas>=1.0.1->ktrain) (2022.7.1)
Requirement already satisfied: regex>2016 in /opt/conda/lib/python3.7/site-

packages (from syntok>1.3.3->ktrain) (2022.10.31)
 Requirement already satisfied: tokenizers!=0.11.3,<0.14,>=0.11.1 in
 /opt/conda/lib/python3.7/site-packages (from transformers>=4.17.0->ktrain)
 (0.13.2)
 Requirement already satisfied: huggingface-hub<1.0,>=0.11.0 in
 /opt/conda/lib/python3.7/site-packages (from transformers>=4.17.0->ktrain)
 (0.13.1)
 Requirement already satisfied: pyyaml>=5.1 in /opt/conda/lib/python3.7/site-
 packages (from transformers>=4.17.0->ktrain) (6.0)
 Requirement already satisfied: filelock in /opt/conda/lib/python3.7/site-
 packages (from transformers>=4.17.0->ktrain) (3.9.0)
 Requirement already satisfied: importlib-metadata in
 /opt/conda/lib/python3.7/site-packages (from transformers>=4.17.0->ktrain)
 (6.0.0)
 Requirement already satisfied: tqdm>=4.27 in /opt/conda/lib/python3.7/site-
 packages (from transformers>=4.17.0->ktrain) (4.64.1)
 Requirement already satisfied: six in /opt/conda/lib/python3.7/site-packages
 (from langdetect->ktrain) (1.16.0)
 Requirement already satisfied: urllib3<1.27,>=1.21.1 in
 /opt/conda/lib/python3.7/site-packages (from requests->ktrain) (1.26.14)
 Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.7/site-
 packages (from requests->ktrain) (3.4)
 Requirement already satisfied: certifi>=2017.4.17 in
 /opt/conda/lib/python3.7/site-packages (from requests->ktrain) (2022.12.7)
 Requirement already satisfied: charset-normalizer<4,>=2 in
 /opt/conda/lib/python3.7/site-packages (from requests->ktrain) (2.1.1)
 Requirement already satisfied: scipy>=1.1.0 in /opt/conda/lib/python3.7/site-
 packages (from scikit-learn->ktrain) (1.7.3)
 Requirement already satisfied: threadpoolctl>=2.0.0 in
 /opt/conda/lib/python3.7/site-packages (from scikit-learn->ktrain) (3.1.0)
 Requirement already satisfied: typing-extensions>=3.7.4.3 in
 /opt/conda/lib/python3.7/site-packages (from huggingface-
 hub<1.0,>=0.11.0->transformers>=4.17.0->ktrain) (4.4.0)
 Requirement already satisfied: zipp>=0.5 in /opt/conda/lib/python3.7/site-
 packages (from importlib-metadata->transformers>=4.17.0->ktrain) (3.11.0)

```
[5]: ktrain.__version__
```

```
[5]: '0.33.2'
```

Check available text classifiers in ktrain

```
[4]: text.print_text_classifiers()
```

fasttext: a fastText-like model [<http://arxiv.org/pdf/1607.01759.pdf>]
 logreg: logistic regression using a trainable Embedding layer
 nbsvm: NBSVM model [<http://www.aclweb.org/anthology/P12-2018>]
 bigru: Bidirectional GRU with pretrained fasttext word vectors

[<https://fasttext.cc/docs/en/crawl-vectors.html>]
 standard_gru: simple 2-layer GRU with randomly initialized embeddings
 bert: Bidirectional Encoder Representations from Transformers (BERT) from
 keras_bert [<https://arxiv.org/abs/1810.04805>]
 distilbert: distilled, smaller, and faster BERT from Hugging Face transformers
 [<https://arxiv.org/abs/1910.01108>]

Copy files to local FS from GCP bucket

```
[6]: !mkdir -p /home/jupyter/data/yelp
```

```
[7]: !gsutil cp -n 'gs://msca-bdp-data-open/yelp/yelp_train_sentiment.json' '/home/
    ↪jupyter/data/yelp/'
```

Skipping existing item: file:///home/jupyter/data/yelp/yelp_train_sentiment.json

0.1.1 Load Data

```
[8]: yelp_path = '/home/jupyter/data/yelp/yelp_train_sentiment.json'
```

```
[9]: yelp = pd.read_json(yelp_path, orient='records', lines=True)
    # yelp = pd.read_json(yelp_path, orient='records', lines=True).head(10000)
    yelp.shape
```

```
[9]: (255717, 3)
```

```
[10]: yelp.head(5)
```

```
[10]:
```

	text	label	lang
0	I love Deagan's. I do. I really do. The atmoosp...	1	en
1	I love the classes at this gym. Zumba and. Rad...	1	en
2	The tables and floor were dirty. I was the onl...	0	en
3	I had an oil change at the 15515 N Scottsdale ...	0	en
4	The absolute WORST apartment complex I have ev...	0	en

0.1.2 Prepare source data

```
[11]: sentiment = {0: "Negative", 1: "Positive"}
    yelp['sentiment'] = yelp['label'].map(sentiment)
```

```
[12]: df = yelp[['text', 'sentiment']].rename(columns={'text': 'data', 'sentiment':
    ↪ 'target'})
```

```
[13]: df.head(5)
```

```
[13]:
```

	data	target
0	I love Deagan's. I do. I really do. The atmoosp...	Positive
1	I love the classes at this gym. Zumba and. Rad...	Positive

```

2 The tables and floor were dirty. I was the onl... Negative
3 I had an oil change at the 15515 N Scottsdale ... Negative
4 The absolute WORST apartment complex I have ev... Negative

```

```
[14]: df.shape
```

```
[14]: (255717, 2)
```

```
[15]: df.groupby(['target']).count()
```

```

[15]:          data
target
Negative  127995
Positive  127722

```

0.2 STEP 1: Load and Preprocess the Dataset

Preprocess the data using the `texts_from_array` function (since the data resides in an array). If your documents are stored in folders or a CSV file you can use the `texts_from_folder` or `texts_from_csv` functions, respectively.

```

[16]: maxFeatures = 20000 #num of words to consider in vocabulary
      maxlen = 200 #each document can be of most <maxlen> words. 0 is used as padding
      ↪ ID.
      nGramRange = 1 #size of multi-word phrases to consider
      preprocessMode='standard' #Either 'standard' (normal tokenization) or 'bert'
      ↪ tokenization and preprocessing for use with BERT text classification model.
      sampleSize = 0.3 #Proportion of training to use for validation

      (x_train, y_train), (x_test, y_test), preproc = text.texts_from_df(train_df =
      ↪ df,
      text_column=
      ↪ 'data',
      label_columns = ['target'],
      val_pct=sampleSize,
      preprocess_mode=preprocessMode, #text must be preprocessed in a specific way
      ↪ for use with BERT
      maxlen=maxlen,
      max_features=maxFeatures)

```

```

['Negative', 'Positive']
      Negative  Positive

```

```

233264      0.0      1.0
78586       0.0      1.0
85690       1.0      0.0
181587      1.0      0.0
247296      0.0      1.0
['Negative', 'Positive']
      Negative  Positive
130344      0.0      1.0
101178      1.0      0.0
139207      1.0      0.0
158622      1.0      0.0
18092       0.0      1.0
language: en
Word Counts: 109494
Nrows: 179001
179001 train sequences
train sequence lengths:
      mean : 113
      95percentile : 326
      99percentile : 584
x_train shape: (179001,200)
y_train shape: (179001, 2)
Is Multi-Label? False
76716 test sequences
test sequence lengths:
      mean : 113
      95percentile : 327
      99percentile : 576
x_test shape: (76716,200)
y_test shape: (76716, 2)

```

0.3 STEP 2: Load a pretrained fastText model and wrap it in a `ktrain.Learner` object

This step can be condensed into a single line of code, but we execute it as two lines for clarity. (You can ignore the deprecation warnings arising from Keras 2.2.4 with TensorFlow 1.14.0.)

```
[17]: model = text.text_classifier('bigru', (x_train, y_train), preproc=preproc)
```

```

Is Multi-Label? False
compiling word ID features...
maxlen is 200
word vectors will be loaded from:
https://dl.fbaipublicfiles.com/fasttext/vectors-crawl/cc.en.300.vec.gz
processing pretrained word vectors...
loading pretrained word vectors...this may take a few moments...
<IPython.core.display.HTML object>

```


<IPython.core.display.HTML object>

```
2023-03-11 05:26:00.340631: I tensorflow/core/platform/cpu_feature_guard.cc:193]
This TensorFlow binary is optimized with oneAPI Deep Neural Network Library
(oneDNN) to use the following CPU instructions in performance-critical
operations:  AVX2 FMA
To enable them in other operations, rebuild TensorFlow with the appropriate
compiler flags.
```

done.

```
[18]: batchSize = 64 ### Check best size

learner = ktrain.get_learner(model,
                             train_data=(x_train, y_train),
                             val_data=(x_test, y_test),
                             batch_size=batchSize)
```

0.4 STEP 3: Train the Model

We train using one of the three learning rates recommended in the BERT paper: $5e-5$, $3e-5$, or $2e-5$. Alternatively, the ktrain Learning Rate Finder can be used to find a good learning rate by invoking `learner.lr_find()` and `learner.lr_plot()`, prior to training. The `learner.fit_onecycle` method employs a [1cycle learning rate policy](#).

```
[19]: # briefly simulate training to find good learning rate

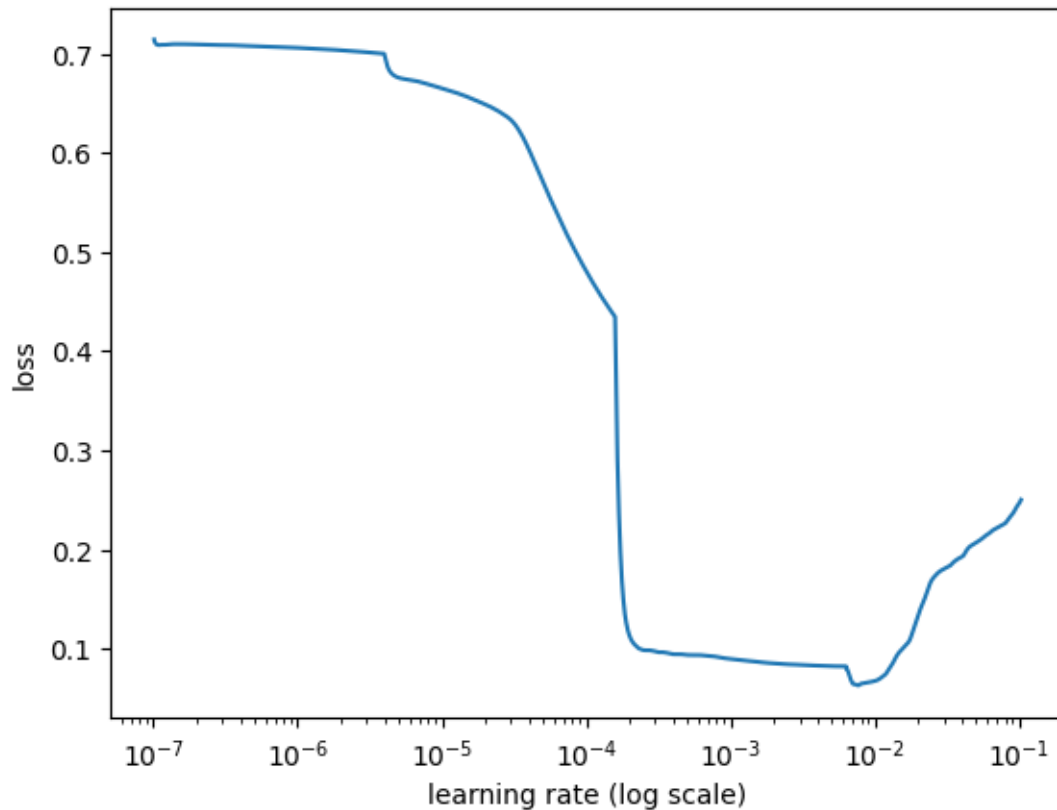
learner.lr_find(max_epochs=5)
```

```
simulating training for different learning rates... this may take a few
moments...
Epoch 1/5
2797/2797 [=====] - 463s 163ms/step - loss: 0.6996 -
accuracy: 0.5097
Epoch 2/5
2797/2797 [=====] - 463s 165ms/step - loss: 0.4289 -
accuracy: 0.7923
Epoch 3/5
2797/2797 [=====] - 474s 169ms/step - loss: 0.0822 -
accuracy: 0.9704
Epoch 4/5
2797/2797 [=====] - 364s 130ms/step - loss: 0.2639 -
accuracy: 0.9203
```

done.

Please invoke the `Learner.lr_plot()` method to visually inspect the loss plot to help identify the maximal learning rate associated with falling loss.

```
[20]: learner.lr_plot()
```



```
[19]: learningRate = 0.001
      numEpoch = 2

      # learner.fit_onecycle(learningRate, numEpoch)
      learner.autofit(learningRate, numEpoch)
```

```
begin training using triangular learning rate policy with max lr of 0.001...
Epoch 1/2
2797/2797 [=====] - 606s 215ms/step - loss: 0.1220 -
accuracy: 0.9483 - val_loss: 0.0536 - val_accuracy: 0.9813
Epoch 2/2
2797/2797 [=====] - 610s 218ms/step - loss: 0.0422 -
accuracy: 0.9856 - val_loss: 0.0470 - val_accuracy: 0.9835
```

```
[19]: <keras.callbacks.History at 0x7f8580a71f10>
```

We can use the `learner.validate` method to test our model against the validation set.

```
[19]: learner.validate(val_data=(x_test, y_test))
```

```
2398/2398 [=====] - 93s 39ms/step
      precision    recall  f1-score   support

     0       0.98       0.98       0.98     38314
     1       0.98       0.98       0.98     38402

 accuracy                   0.98     76716
 macro avg       0.98       0.98       0.98     76716
 weighted avg    0.98       0.98       0.98     76716
```

```
[19]: array([[37715,  599],
             [ 726, 37676]])
```

```
[20]: learner.validate(val_data=(x_test, y_test))
```

```
2398/2398 [=====] - 94s 39ms/step
      precision    recall  f1-score   support

     0       0.98       0.98       0.98     38314
     1       0.98       0.98       0.98     38402

 accuracy                   0.98     76716
 macro avg       0.98       0.98       0.98     76716
 weighted avg    0.98       0.98       0.98     76716
```

```
[20]: array([[37715,  599],
             [ 726, 37676]])
```

0.5 STEP 4: Making predictions

We can call the `learner.get_predictor` method to obtain a Predictor object capable of making predictions on new raw data.

```
[20]: predictor = ktrain.get_predictor(learner.model, preproc)
```

```
[21]: predictor.get_classes()
```

```
[21]: ['Negative', 'Positive']
```

```
[22]: df=pd.read_csv("ner_sa_df.csv")
      df.shape
```

```
[22]: (994210, 7)
```

```
[23]: df.head(2)
```

```
[23]:   Unnamed: 0      date  topic sentiment  ent ent_val \
0          0  2020-01-28      3  Positive  ORG   intel
1          1  2020-01-28      3  Positive  ORG   intel

                                sent
0  [aucklandscoopconz, aut, boost, ai, expertise,...
1  [aucklandscoopconz, aut, boost, ai, expertise,...
```

```
[25]: df.drop("Unnamed: 0",axis=1,inplace=True)
```

```
[26]: # Drop duplicate rows based on all columns
df.drop_duplicates(inplace=True)
```

```
[27]: len(df)
```

```
[27]: 164048
```

```
[28]: print(predictor.predict(df.sent.iloc[1]))
```

```
1/1 [=====] - 1s 738ms/step
Positive
```

```
[ ]: predicted=[]

for i in range(len(df)):
    temp=predictor.predict(df.sent.iloc[i])
    predicted.append(temp)
```

```
1/1 [=====] - 0s 36ms/step
1/1 [=====] - 0s 36ms/step
1/1 [=====] - 0s 37ms/step
1/1 [=====] - 0s 37ms/step
1/1 [=====] - 0s 35ms/step
1/1 [=====] - 0s 38ms/step
1/1 [=====] - 0s 38ms/step
1/1 [=====] - 0s 37ms/step
1/1 [=====] - 0s 39ms/step
1/1 [=====] - 0s 38ms/step
1/1 [=====] - 0s 36ms/step
1/1 [=====] - 0s 36ms/step
1/1 [=====] - 0s 36ms/step
1/1 [=====] - 0s 36ms/step
1/1 [=====] - 0s 35ms/step
1/1 [=====] - 0s 36ms/step
1/1 [=====] - 0s 35ms/step
```

```

1/1 [=====] - 0s 37ms/step
1/1 [=====] - 0s 37ms/step
1/1 [=====] - 0s 41ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 37ms/step
1/1 [=====] - 0s 38ms/step
1/1 [=====] - 0s 39ms/step
1/1 [=====] - 0s 41ms/step
1/1 [=====] - 0s 41ms/step
1/1 [=====] - 0s 41ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 38ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 39ms/step
1/1 [=====] - 0s 57ms/step
1/1 [=====] - 0s 41ms/step
1/1 [=====] - 0s 41ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 39ms/step
1/1 [=====] - 0s 41ms/step
1/1 [=====] - 0s 42ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 40ms/step
1/1 [=====] - 0s 45ms/step
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```

```
[34]: x["NER_Sentiment"]=-predicted
```

```

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:1:
SettingWithCopyWarning:

```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

"""Entry point for launching an IPython kernel.

```
[35]: x.head(2)
```

```
[35]:
```

	date	topic	sentiment	ent	ent_val	\
0	2020-01-28	3	Positive	ORG	intel	
2	2020-01-28	3	Positive	LOC	australia	

		sent	NER_Sentiment
0	[aucklandscoopconz, aut, boost, ai, expertise,...		Positive
2	[aucklandscoopconz, aut, boost, ai, expertise,...		Positive

```
[36]: x.ent_val.value_counts()
```

```
[36]:
```

intel	4934
uk	3095
india	2840
google	2663
china	2290
microsoft	2008
canada	1932
japan	1824
france	1743
germany	1682
australia	1679
youtube	1528
new york	1438
ibm	1235
california	1206
fcc	1156
israel	1145
washington	901
singapore	878
samsung	797
london	765
gray television	679
gray medium	676
pennsylvania	510
nasa	509
chatgpt	254
doylestown	169
nexstar	100

Name: ent_val, dtype: int64

```
[37]: # Group the DataFrame by 'Name' and 'City', and count the number of occurrences
grouped = x.groupby(['ent_val', 'NER_Sentiment']).size()

# Divide each group count by the total count for each name
percentage = grouped.groupby(level=0).transform(lambda x: x / x.sum())
```

```
[38]: percentage
```

```
[38]: ent_val      NER_Sentiment
australia      Positive      1.0
california     Positive      1.0
canada         Positive      1.0
chatgpt        Positive      1.0
china          Positive      1.0
doylestown     Positive      1.0
fcc            Positive      1.0
france         Positive      1.0
germany        Positive      1.0
google         Positive      1.0
gray medium    Positive      1.0
gray television Positive      1.0
ibm            Positive      1.0
india          Positive      1.0
intel          Positive      1.0
israel         Positive      1.0
japan          Positive      1.0
london         Positive      1.0
microsoft      Positive      1.0
nasa           Positive      1.0
new york       Positive      1.0
nexstar        Positive      1.0
pennsylvania   Positive      1.0
samsung        Positive      1.0
singapore      Positive      1.0
uk             Positive      1.0
washington     Positive      1.0
youtube        Positive      1.0
dtype: float64
```

```
[40]: df['date'] = pd.to_datetime(df['date'])
```

```
[41]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 164048 entries, 0 to 994209
```

```
Data columns (total 6 columns):
#   Column      Non-Null Count  Dtype
---  -
0   date        164048 non-null    datetime64[ns]
1   topic        164048 non-null    int64
2   sentiment    164048 non-null    object
3   ent          164048 non-null    object
4   ent_val      164048 non-null    object
5   sent         164048 non-null    object
dtypes: datetime64[ns](1), int64(1), object(4)
memory usage: 8.8+ MB
```

```
[ ]:
```