

Token classification examples

Fine-tuning the library models for token classification task such as Named Entity Recognition (NER), Parts-of-speech tagging (POS) or phrase extraction (CHUNKS). The main script `run_flax_ner.py` leverages the 🤗 Datasets library. You can easily customize it to your needs if you need extra processing on your datasets.

It will either run on a datasets hosted on our hub or with your own text files for training and validation, you might just need to add some tweaks in the data preprocessing.

The following example fine-tunes BERT on CoNLL-2003:

```
python run_flax_ner.py \  
  --model_name_or_path bert-base-cased \  
  --dataset_name conll2003 \  
  --max_seq_length 128 \  
  --learning_rate 2e-5 \  
  --num_train_epochs 3 \  
  --per_device_train_batch_size 4 \  
  --output_dir ./bert-ner-conll2003 \  
  --eval_steps 300 \  
  --push_to_hub
```

Using the command above, the script will train for 3 epochs and run eval after each epoch. Metrics and hyperparameters are stored in Tensorflow event files in `--output_dir`. You can see the results by running `tensorboard` in that directory:

```
$ tensorboard --logdir .
```

or directly on the hub under *Training metrics*.

sample Metrics - tfhub.dev