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

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force remount=True).

cd drive/MyDrive/legal-roberta-base

/content/drive/MyDrive/legal-roberta-base

 $\verb|pip install <u>https://huggingface.co/opennyaiorg/en_legal_ner_trf/resolve/main/en_legal_ner_trf-any-py3-none-any.whladianal.equal transfer | the content of the content$ </u>

Looking in indexes: https://pypi.org/simple, <a href="https://pypi.org/simple, https://pypi.org/simple, <a href="https://pypi.org/simple, <a href="https://pypi.org/simple, <a href="https://pypi. Collecting en-legal-ner-trf==any Downloading https://huggingface.co/opennyaiorg/en_legal_ner_trf/resolve/main/en_legal_ner_trf-any-py3-none-any.whl (446.7 MB) 446.7 MB 27 kB/s Requirement already satisfied: spacy<3.3.0,>=3.2.2 in /usr/local/lib/python3.8/dist-packages (from en-legal-ner-trf==any) (3.2.4) Requirement already satisfied: spacy-transformers<1.2.0,>=1.1.4 in /usr/local/lib/python3.8/dist-packages (from en-legal-ner-trf==any) (1.1.7) $Requirement already \ satisfied: \ thinc < 8.1.0, >= 8.0.12 \ in \ /usr/local/lib/python 3.8/dist-packages \ (from \ spacy < 3.3.0, >= 3.2.2 -> en-legal-ner-trf == any) \ (8.0.17)$ Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (2.23.0) Requirement already satisfied: pathy>=0.3.5 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (0.10.0) Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (4.64.1) Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (2.0.8) Requirement already satisfied: pydantic!=1.8,!=1.8.1,<1.9.0,>=1.7.4 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (1.8.2) Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (2.0.7) Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.8 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (3.0.10) Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (21.3) Requirement already satisfied: jinja2 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (2.11.3) Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (1.21.6) Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2-en-legal-ner-trf==any) (3.3.0) Requirement already satisfied: typer<0.5.0,>=0.3.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (0.4.2) Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (1.0.9) Requirement already satisfied: setuptools in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (57.4.0) Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (3.0.8) Requirement already satisfied: 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certifi>=2017.4.17 in /usr/local/lib/python3.8/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (2022.9.24) Requirement already satisfied: transformers<4.21.0,>=3.4.0 in /usr/local/lib/python3.8/dist-packages (from spacy-transformers<1.2.0,>=1.1.4->en-legal-ner-trf==any) (4.20.1)
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Requirement already satisfied: filelock in /usr/local/lib/python3.8/dist-packages (from transformers<4.21.0,>=3.4.0->spacy-transformers<1.2.0,>=1.1.4->en-legal-ner-trf==any) (3.8.0) Requirement already satisfied: huggingface-hub<1.0,>=0.1.0 in /usr/local/lib/python3.8/dist-packages (from transformers<4.21.0,>=3.4.0->spacy-transformers<1.2.0,>=1.1.4->en-legal-ner-trf==any)

Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.8/dist-packages (from transformers<4.21.0,>=3.4.0->spacy-transformers<1.2.0,>=1.1.4->en-legal-ner-trf==any) (2022.6.2

Requirement already satisfied: tokenizers!=0.11.3,<0.13,>=0.11.1 in /usr/local/lib/python3.8/dist-packages (from transformers<4.21.0,>=3.4.0->spacy-transformers<1.2.0,>=1.1.4->en-legal-ner-trf

Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.8/dist-packages (from transformers<4.21.0,>=3.4.0->spacy-transformers<1.2.0,>=1.1.4->en-legal-ner-trf==any) (6.0)

pip install https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-3.2.0/en_core_web_sm-3.2.0-py3-none-any.whl

Looking in indexes: https://us-python.pkg.dev/colab-wheels/public/simple/ Collecting en-core-web-sm==3.2.0

Downloading https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-3.2.0/en_core_web_sm-3.2.0-py3-none-any.whl (13.9 MB)

Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.8/dist-packages (from jinja2->spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (2.0.1)

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13.9 MB 521 kB/s
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Requirement already satisfied: pathy>=0.3.5 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (0.10.0)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (1.0.9)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.0.8)
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Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.8/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.10)
Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.8/dist-packages (from jinja2->spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.0.1)
```

!pip install -r requirements.txt

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: spacy in /usr/local/lib/python3.8/dist-packages (from -r requirements.txt (line 1)) (3.2.4)
Requirement already satisfied: bs4 in /usr/local/lib/python3.8/dist-packages (from -r requirements.txt (line 2)) (0.0.1)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.8/dist-packages (from -r requirements.txt (line 3)) (1.24.3)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.8 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (3.0.10)
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Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.8/dist-packages (from bs4->-r requirements.txt (line 2)) (4.6.3)
Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.8/dist-packages (from jinja2->spacy->-r requirements.txt (line 1)) (2.0.1)
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Creating doc for preamble took 0.3533329963684082
    /content/drive/MyDrive/legal-roberta-base/legal_ner.py:39: UserWarning: [W101] Skipping Doc custom extension 'trf_data' while merging docs.
      combined_doc = spacy.tokens.Doc.from_docs([doc_preamble, doc_judgment])
    Combining took 0.00970315933227539
!python3 example-sent.py
    Seperating Preamble took 0.023441553115844727
    /content/drive/MyDrive/legal-roberta-base/data preparation.pv:261: UserWarning: [W101] Skipping Doc custom extension 'trf data' while merging docs.
      combined docs=spacy.tokens.Doc.from docs(docs)
    Creating doc for jdgement took 9.762348175048828
    Creating doc for preamble took 0.36974358558654785
    /content/drive/MyDrive/legal-roberta-base/legal_ner.py:39: UserWarning: [W101] Skipping Doc custom extension 'trf_data' while merging docs.
      combined_doc = spacy.tokens.Doc.from_docs([doc_preamble, doc_judgment])
    Combining took 0.010306119918823242
!python -m spacy train training/config.cfg --output ./output --paths.train training/Combined_Data_Judgement_Preamble_spacy_format/train.spacy --paths.dev training/Combined_Data_Judgement_Preamble_spacy_format/train.spacy
    i Saving to output directory: output
    i Using GPU: 0
    ----- Initializing pipeline ------
    [2022-12-12 14:54:14,568] [INFO] Set up nlp object from config
    INFO:spacy:Set up nlp object from config
    [2022-12-12 14:54:14,577] [INFO] Pipeline: ['transformer', 'ner']
    INFO:spacy:Pipeline: ['transformer', 'ner']
    [2022-12-12 14:54:14,580] [INFO] Created vocabulary
    INFO:spacy:Created vocabulary
    [2022-12-12 14:54:14,581] [INFO] Finished initializing nlp object
    INFO:spacy:Finished initializing nlp object
    Some weights of the model checkpoint at saibo/legal-roberta-base were not used when initializing RobertaModel: ['lm_head.decoder.bias', 'lm_head.decoder.weight', 'lm_head.layer_norm.weight',
    - This IS expected if you are initializing RobertaModel from the checkpoint of a model trained on another task or with another architecture (e.g. initializing a BertForSequenceClassification m
    - This IS NOT expected if you are initializing RobertaModel from the checkpoint of a model that you expect to be exactly identical (initializing a BertForSequenceClassification model from a Be
    Some weights of RobertaModel were not initialized from the model checkpoint at saibo/legal-roberta-base and are newly initialized: ['roberta.pooler.dense.bias', 'roberta.pooler.dense.weight']
    You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference.
    [2022-12-12 14:54:50,915] [INFO] Initialized pipeline components: ['transformer', 'ner']
    INFO:spacy:Initialized pipeline components: ['transformer', 'ner']
    ✓ Initialized pipeline
                    ------ Training pipeline -----
    i Pipeline: ['transformer', 'ner']
    i Initial learn rate: 0.0
             LOSS TRANS... LOSS NER ENTS_F ENTS_P ENTS_R SCORE
     ... ----- ------ ----- ----
    Token indices sequence length is longer than the specified maximum sequence length for this model (514 > 512). Running this sequence through the model will result in indexing errors
                    13868.19 704.23 0.10 0.07 0.20 0.00 1338703.62 274560.47 74.73 74.65 74.80 0.75
           2000
                     47594.88 149375.47 85.28 86.30 84.28
    A Aborting and saving the final best model. Encountered exception:
    OutOfMemoryError('CUDA out of memory. Tried to allocate 216.00 MiB (GPU 0; 14.76
    GiB total capacity; 12.89 GiB already allocated; 177.75 MiB free; 13.61 GiB
    reserved in total by PyTorch) If reserved memory is >> allocated memory try
    setting max_split_size_mb to avoid fragmentation. See documentation for Memory Management and PYTORCH_CUDA_ALLOC_CONF')
    Traceback (most recent call last):
      File "/usr/lib/python3.8/runpy.py", line 194, in _run_module_as_main
        return _run_code(code, main_globals, None,
      File "/usr/lib/python3.8/runpy.py", line 87, in _run_code
        exec(code, run_globals)
      File "/usr/local/lib/python3.8/dist-packages/spacy/__main__.py", line 4, in <module>
        setup cli()
      File "/usr/local/lib/python3.8/dist-packages/spacy/cli/_util.py", line 71, in setup_cli
        command(prog_name=COMMAND)
      File "/usr/local/lib/python3.8/dist-packages/click/core.py", line 829, in __call__
        return self.main(*args, **kwargs)
      File "/usr/local/lib/python3.8/dist-packages/click/core.py", line 782, in main
        rv = self.invoke(ctx)
      File "/usr/local/lib/python3.8/dist-packages/click/core.py", line 1259, in invoke
        return _process_result(sub_ctx.command.invoke(sub_ctx))
```

Seperating Preamble took 0.023373126983642578 Creating doc for jdgement took 8.093775987625122

File "/usr/local/lib/python3.8/dist-packages/click/core.py", line 1066, in invoke

 ${\tt File ~"/usr/local/lib/python 3.8/dist-packages/click/core.py", line 610, in invoke}$

File "/usr/local/lib/python3.8/dist-packages/typer/main.py", line 532, in wrapper

File "/usr/local/lib/python3.8/dist-packages/spacy/cli/train.py", line 45, in train_cli

return ctx.invoke(self.callback, **ctx.params)

return callback(**use_params) # type: ignore

return callback(*args, **kwargs)