```
drive.mount('/content/drive')
      Mounted at /content/drive
cd drive/MyDrive/roberta-base
      /content/drive/MyDrive/roberta-base
Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/public/simple/</a>
      Collecting en-legal-ner-trf==any
         Downloading <a href="https://huggingface.co/opennyaiorg/en_legal_ner_trf/resolve/main/en_legal_ner_trf-any-py3-none-any.whl">https://huggingface.co/opennyaiorg/en_legal_ner_trf/resolve/main/en_legal_ner_trf-any-py3-none-any.whl</a> (446.7 MB)
                                                         446.7 MB 26 kB/s
      Collecting spacy<3.3.0,>=3.2.2
         Downloading spacy-3.2.4-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (6.2 MB)
      | 6.2 MB 3.7 MB/s Collecting spacy-transformers<1.2.0,>=1.1.4
         Downloading spacy_transformers-1.1.8-py2.py3-none-any.whl (53 kB)
                                                      53 kB 2.1 MB/s
      Collecting thinc<8.1.0,>=8.0.12
          \label{lower_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_power_po
                                                       671 kB 86.7 MB/s
      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: 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: click<8.1.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (7.1.2)
      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: 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: 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: 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: 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: 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)
      Collecting typer<0.5.0,>=0.3.0
         Downloading typer-0.4.2-py3-none-any.whl (27 kB)
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      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: srsly<3.0.0,>=2.4.1 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (2.4.5)
      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: 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)
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      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)
      Collecting pydantic!=1.8,!=1.8.1,<1.9.0,>=1.7.4
         Downloading pydantic-1.8.2-cp38-cp38-manylinux2014_x86_64.whl (13.7 MB)
      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: pyparsing!=3.0.5,>=2.0.2 in /usr/local/lib/python3.8/dist-packages (from packaging>=20.0->spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (3.0.9)
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      Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.8/dist-packages (from pydantic!=1.8,!=1.8.1,<1.9.0,>=1.7.4->spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (4.4)
      Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.8/dist-packages (from requests3.0.0,>=2.13.0->spacy<3.3.0,>=3.2.2->en-legal-ner-trf==any) (2022.9.24)
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         \label{lownloading} \texttt{Downloading spacy\_alignments-0.8.6-cp38-cp38-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl} \hspace*{0.2cm} \textbf{(1.1 MB)} \\ \texttt{MB} \textbf{(1.1 MB)} \textbf{(2.1 MB)} \textbf{(2.1 MB)} \textbf{(2.2 MB)} \textbf{(
                                                       1.1 MB 88.9 MB/s
      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)
      Collecting tokenizers!=0.11.3,<0.13,>=0.11.1
Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/public/simple/</a>
      Collecting en-core-web-sm==3.2.0
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      Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (4.64.1) Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python3.8/dist-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.23.0)
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      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)
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      Requirement already satisfied: chardet<4,>=3.0.2 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) (3.0.4)
      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)
      Installing collected packages: en-core-web-sm
         Attempting uninstall: en-core-web-sm
            Found existing installation: en-core-web-sm 3.4.1
            Uninstalling en-core-web-sm-3.4.1:
              Successfully uninstalled en-core-web-sm-3.4.1
      Successfully installed en-core-web-sm-3.2.0
!pip install -r requirements.txt
      Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/public/simple/</a>
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      Requirement already satisfied: bs4 in /usr/local/lib/python3.8/dist-packages (from -r requirements.txt (line 2)) (0.0.1)
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      Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (1.0.3)
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      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->-r requirements.txt (line 1)) (1.8.2)
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from google.colab import drive

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Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (21.3)
    Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (4.64.1)
    Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (2.0.8)
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    Requirement already satisfied: thinc<8.1.0,>=8.0.12 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (8.0.17)
    Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (1.21.6)
    Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (1.0.9)
    Requirement already satisfied: blis<0.8.0,>=0.4.0 in /usr/local/lib/python3.8/dist-packages (from spacy->-r requirements.txt (line 1)) (0.7.9)
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    Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.8/dist-packages (from requests<3.0.0,>=2.13.0->spacy->-r requirements.txt (line 1)) (3.0.4)
    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)
!python3 example-doc.py
    Seperating Preamble took 0.034619808197021484
    Creating doc for jdgement took 9.942145347595215
    Creating doc for preamble took 0.4449019432067871
    /content/drive/MyDrive/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 0.6706979274749756
!python3 example-sent.py
    Seperating Preamble took 0.021465539932250977
    /content/drive/MyDrive/roberta-base/data_preparation.py: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 13.631861925125122
    Creating doc for preamble took 0.42284703254699707
    /content/drive/MyDrive/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 0.009042024612426758
!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_s
    i Saving to output directory: output
    i Using GPU: 0
                            ==== Initializing pipeline =====
    [2022-12-12 18:17:20,112] [INFO] Set up nlp object from config
    INFO:spacy:Set up nlp object from config
    [2022-12-12 18:17:20,121] [INFO] Pipeline: ['transformer', 'ner']
    INFO:spacy:Pipeline: ['transformer', 'ner']
    [2022-12-12 18:17:20,125] [INFO] Created vocabulary
    INFO:spacy:Created vocabulary
    [2022-12-12 18:17:20,125] [INFO] Finished initializing nlp object
    INFO:spacy:Finished initializing nlp object
    Downloading: 100% 481/481 [00:00<00:00, 452kB/s]
    Downloading: 100% 878k/878k [00:01<00:00, 820kB/s]
    Downloading: 100% 446k/446k [00:00<00:00, 499kB/s]
    Downloading: 100% 1.29M/1.29M [00:01<00:00, 1.22MB/s]
    Downloading: 100% 478M/478M [00:04<00:00, 110MB/s]
    Some weights of the model checkpoint at roberta-base were not used when initializing RobertaModel: ['lm_head.layer_norm.weight', 'lm_head.dense.weight', 'lm_head.bias', 'lm_head.decoder.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
    [2022-12-12 18:18:15,362] [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
    E
         #
    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
             0
                   22578.78 716.42 0.02 0.02 0.03 0.00 1677439.68 282526.71 71.38 71.14 71.63 0.71
      0
           1000
                                                                     0.71
      2
          2000
                     62568.34 148500.26 85.63 85.96 85.30
    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; 173.75 MiB free; 13.61 GiB
    reserved in total by PyTorch) If reserved memory is >> allocated memory try
    setting \max\_\operatorname{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>
      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))
      File "/usr/local/lib/python3.8/dist-packages/click/core.py", line 1066, in invoke
        return ctx.invoke(self.callback, **ctx.params)
      File "/usr/local/lib/python3.8/dist-packages/click/core.py", line 610, in invoke
        return callback(*args, **kwargs)
```