

# Evaluation

This notebook runs the official evaluation code `evaluate.py` on google colab.

```
In [ ]: import numpy as np
import torch
import torch.nn as nn
from tqdm import tqdm
from sklearn import preprocessing
import joblib
from torch.optim import AdamW
```

```
In [2]: 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)`.

## Setup the evaluation script





### 1. download the evaluation models

```
In [3]: # run once only to setup the models folder
# will take quite awhile to run (dependening on network speed but usually ta
!bash /content/drive/MyDrive/BioLaySumm2024-evaluation_scripts/get_models.sh
```

```

Cloning into 'LENS'...
remote: Enumerating objects: 178, done.
remote: Counting objects: 100% (85/85), done.
remote: Compressing objects: 100% (64/64), done.
remote: Total 178 (delta 25), reused 64 (delta 15), pack-reused 93
Receiving objects: 100% (178/178), 509.44 KiB | 4.95 MiB/s, done.
Resolving deltas: 100% (64/64), done.
Processing ./LENS/lens
  Preparing metadata (setup.py) ... done
Requirement already satisfied: sentencepiece>=0.1.96 in /usr/local/lib/python3.10/dist-packages (from lens-metric==0.1.1) (0.1.99)
Collecting pandas==1.1.5 (from lens-metric==0.1.1)
  Downloading pandas-1.1.5.tar.gz (5.2 MB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 5.2/5.2 MB 13.7 MB/s eta 0:00:00
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Requirement already satisfied: transformers>=4.8 in /usr/local/lib/python3.10/dist-packages (from lens-metric==0.1.1) (4.38.2)
Collecting pytorch-lightning==1.6.0 (from lens-metric==0.1.1)
  Downloading pytorch_lightning-1.6.0-py3-none-any.whl (582 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 582.1/582.1 kB 43.4 MB/s eta 0:00:00
Collecting jsonargparse==3.13.1 (from lens-metric==0.1.1)
  Downloading jsonargparse-3.13.1-py3-none-any.whl (101 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 101.4/101.4 kB 12.6 MB/s eta 0:00:00
Collecting torch<2,>=1.6.0 (from lens-metric==0.1.1)
  Downloading torch-1.13.1-cp310-cp310-manylinux1_x86_64.whl (887.5 MB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 887.5/887.5 MB 1.7 MB/s eta 0:00:00
Requirement already satisfied: numpy>=1.20.0 in /usr/local/lib/python3.10/dist-packages (from lens-metric==0.1.1) (1.25.2)
Collecting torchmetrics>=0.7 (from lens-metric==0.1.1)
  Downloading torchmetrics-1.3.1-py3-none-any.whl (840 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 840.4/840.4 kB 26.6 MB/s eta 0:00:00
Collecting sacrebleu>=2.0.0 (from lens-metric==0.1.1)
  Downloading sacrebleu-2.4.1-py3-none-any.whl (106 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 106.6/106.6 kB 15.9 MB/s eta 0:00:00
Requirement already satisfied: scipy>=1.5.4 in /usr/local/lib/python3.10/dist-packages (from lens-metric==0.1.1) (1.11.4)
Requirement already satisfied: PyYAML>=3.13 in /usr/local/lib/python3.10/dist-packages (from jsonargparse==3.13.1->lens-metric==0.1.1) (6.0.1)
Requirement already satisfied: python-dateutil>=2.7.3 in /usr/local/lib/python3.10/dist-packages (from pandas==1.1.5->lens-metric==0.1.1) (2.8.2)
Requirement already satisfied: pytz>=2017.2 in /usr/local/lib/python3.10/dist-packages (from pandas==1.1.5->lens-metric==0.1.1) (2023.4)
Requirement already satisfied: tqdm>=4.41.0 in /usr/local/lib/python3.10/dist-packages (from pytorch-lightning==1.6.0->lens-metric==0.1.1) (4.66.2)
Requirement already satisfied: fsspec[http]!=2021.06.0,>=2021.05.0 in /usr/local/lib/python3.10/dist-packages (from pytorch-lightning==1.6.0->lens-metric==0.1.1) (2023.6.0)
Requirement already satisfied: tensorboard>=2.2.0 in /usr/local/lib/python3.

```

10/dist-packages (from pytorch-lightning==1.6.0->lens-metric==0.1.1) (2.15.2)  
Collecting pyDeprecate<0.4.0,>=0.3.1 (from pytorch-lightning==1.6.0->lens-metric==0.1.1)  
 Downloading pyDeprecate-0.3.2-py3-none-any.whl (10 kB)  
Requirement already satisfied: packaging>=17.0 in /usr/local/lib/python3.10/dist-packages (from pytorch-lightning==1.6.0->lens-metric==0.1.1) (24.0)  
Requirement already satisfied: typing-extensions>=4.0.0 in /usr/local/lib/python3.10/dist-packages (from pytorch-lightning==1.6.0->lens-metric==0.1.1) (4.10.0)  
Collecting portalocker (from sacrebleu>=2.0.0->lens-metric==0.1.1)  
 Downloading portalocker-2.8.2-py3-none-any.whl (17 kB)  
Requirement already satisfied: regex in /usr/local/lib/python3.10/dist-packages (from sacrebleu>=2.0.0->lens-metric==0.1.1) (2023.12.25)  
Requirement already satisfied: tabulate>=0.8.9 in /usr/local/lib/python3.10/dist-packages (from sacrebleu>=2.0.0->lens-metric==0.1.1) (0.9.0)  
Collecting colorama (from sacrebleu>=2.0.0->lens-metric==0.1.1)  
 Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)  
Requirement already satisfied: lxml in /usr/local/lib/python3.10/dist-packages (from sacrebleu>=2.0.0->lens-metric==0.1.1) (4.9.4)  
Collecting nvidia-cuda-runtime-cu11==11.7.99 (from torch<2,>=1.6.0->lens-metric==0.1.1)  
 Downloading nvidia\_cuda\_runtime\_cu11-11.7.99-py3-none-manylinux1\_x86\_64.whl (849 kB)  
  849.3/849.3 kB 26.2 MB/s eta 0:00:00  
Collecting nvidia-cudnn-cu11==8.5.0.96 (from torch<2,>=1.6.0->lens-metric==0.1.1)  
 Downloading nvidia\_cudnn\_cu11-8.5.0.96-2-py3-none-manylinux1\_x86\_64.whl (557.1 MB)  
  557.1/557.1 MB 1.2 MB/s eta 0:00:00  
Collecting nvidia-cublas-cu11==11.10.3.66 (from torch<2,>=1.6.0->lens-metric==0.1.1)  
 Downloading nvidia\_cublas\_cu11-11.10.3.66-py3-none-manylinux1\_x86\_64.whl (317.1 MB)  
  317.1/317.1 MB 3.3 MB/s eta 0:00:00  
Collecting nvidia-cuda-nvrtc-cu11==11.7.99 (from torch<2,>=1.6.0->lens-metric==0.1.1)  
 Downloading nvidia\_cuda\_nvrtc\_cu11-11.7.99-2-py3-none-manylinux1\_x86\_64.whl (21.0 MB)  
  21.0/21.0 MB 8.0 MB/s eta 0:00:00  
Requirement already satisfied: setuptools in /usr/local/lib/python3.10/dist-packages (from nvidia-cublas-cu11==11.10.3.66->torch<2,>=1.6.0->lens-metric==0.1.1) (67.7.2)  
Requirement already satisfied: wheel in /usr/local/lib/python3.10/dist-packages (from nvidia-cublas-cu11==11.10.3.66->torch<2,>=1.6.0->lens-metric==0.1.1) (0.43.0)  
Collecting lightning-utilities>=0.8.0 (from torchmetrics>=0.7->lens-metric==0.1.1)  
 Downloading lightning\_utilities-0.10.1-py3-none-any.whl (24 kB)  
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from transformers>=4.8->lens-metric==0.1.1) (3.13.1)  
Requirement already satisfied: huggingface-hub<1.0,>=0.19.3 in /usr/local/li

b/python3.10/dist-packages (from transformers>=4.8->lens-metric==0.1.1) (0.20.3)

Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from transformers>=4.8->lens-metric==0.1.1) (2.31.0)

Requirement already satisfied: tokenizers<0.19,>=0.14 in /usr/local/lib/python3.10/dist-packages (from transformers>=4.8->lens-metric==0.1.1) (0.15.2)

Requirement already satisfied: safetensors>=0.4.1 in /usr/local/lib/python3.10/dist-packages (from transformers>=4.8->lens-metric==0.1.1) (0.4.2)

Requirement already satisfied: aiohttp!=4.0.0a0,!4.0.0a1 in /usr/local/lib/python3.10/dist-packages (from fsspec[http]!=2021.06.0,>=2021.05.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (3.9.3)

Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.7.3->pandas==1.1.5->lens-metric==0.1.1) (1.16.0)

Requirement already satisfied: absl-py>=0.4 in /usr/local/lib/python3.10/dist-packages (from tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (1.4.0)

Requirement already satisfied: grpcio>=1.48.2 in /usr/local/lib/python3.10/dist-packages (from tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (1.62.1)

Requirement already satisfied: google-auth<3,>=1.6.3 in /usr/local/lib/python3.10/dist-packages (from tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (2.27.0)

Requirement already satisfied: google-auth-oauthlib<2,>=0.5 in /usr/local/lib/python3.10/dist-packages (from tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (1.2.0)

Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.10/dist-packages (from tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (3.5.2)

Requirement already satisfied: protobuf!=4.24.0,>=3.19.6 in /usr/local/lib/python3.10/dist-packages (from tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (3.20.3)

Requirement already satisfied: tensorboard-data-server<0.8.0,>=0.7.0 in /usr/local/lib/python3.10/dist-packages (from tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (0.7.2)

Requirement already satisfied: werkzeug>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (3.0.1)

Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->transformers>=4.8->lens-metric==0.1.1) (3.3.2)

Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->transformers>=4.8->lens-metric==0.1.1) (3.6)

Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests->transformers>=4.8->lens-metric==0.1.1) (2.0.7)

Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->transformers>=4.8->lens-metric==0.1.1) (2024.2.2)

Requirement already satisfied: aiosignal>=1.1.2 in /usr/local/lib/python3.10/dist-packages (from aiohttp!=4.0.0a0,!4.0.0a1->fsspec[http]!=2021.06.0,>=2021.05.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (1.3.1)

Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp!=4.0.0a0,!4.0.0a1->fsspec[http]!=2021.06.0,>=2021.05.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (23.2.0)

Requirement already satisfied: frozenlist>=1.1.1 in /usr/local/lib/python3.10

0/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fsspec[http]!=2021.06.0,>=2021.05.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (1.4.1)  
Requirement already satisfied: multidict<7.0,>=4.5 in /usr/local/lib/python3.10/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fsspec[http]!=2021.06.0,>=2021.05.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (6.0.5)  
Requirement already satisfied: yarl<2.0,>=1.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fsspec[http]!=2021.06.0,>=2021.05.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (1.9.4)  
Requirement already satisfied: async-timeout<5.0,>=4.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fsspec[http]!=2021.06.0,>=2021.05.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (4.0.3)  
Requirement already satisfied: cachetools<6.0,>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from google-auth<3,>=1.6.3->tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (5.3.3)  
Requirement already satisfied: pyasn1-modules>=0.2.1 in /usr/local/lib/python3.10/dist-packages (from google-auth<3,>=1.6.3->tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (0.3.0)  
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.10/dist-packages (from google-auth<3,>=1.6.3->tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (4.9)  
Requirement already satisfied: requests-oauthlib>=0.7.0 in /usr/local/lib/python3.10/dist-packages (from google-auth-oauthlib<2,>=0.5->tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (1.4.0)  
Requirement already satisfied: MarkupSafe>=2.1.1 in /usr/local/lib/python3.10/dist-packages (from werkzeug>=1.0.1->tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (2.1.5)  
Requirement already satisfied: pyasn1<0.6.0,>=0.4.6 in /usr/local/lib/python3.10/dist-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (0.5.1)  
Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.10/dist-packages (from requests-oauthlib>=0.7.0->google-auth-oauthlib<2,>=0.5->tensorboard>=2.2.0->pytorch-lightning==1.6.0->lens-metric==0.1.1) (3.2.2)  
Building wheels for collected packages: lens-metric, pandas  
 Building wheel for lens-metric (setup.py) ... done  
 Created wheel for lens-metric: filename=lens\_metric-0.1.1-py3-none-any.whl size=30494 sha256=053f1db39896219d2dc9fdaadbbf09282fc2b8596feb24d3bad6113909a39c7d  
 Stored in directory: /tmp/pip-ephem-wheel-cache-ntf0j15x/wheels/25/27/40/b007d5d6927944a3374ecbd9412942c4a3c2b5834446f045ad  
 Building wheel for pandas (pyproject.toml) ... done  
 Created wheel for pandas: filename=pandas-1.1.5-cp310-cp310-linux\_x86\_64.whl size=33263144 sha256=72a0f01270f7248c6f6554fb3b0c1fc4436d79d7bb1b0d685945fdb8e472f2cd  
 Stored in directory: /root/.cache/pip/wheels/92/41/92/769e05cd303040fdae625c9f5a8d38f1d37c423aa2a30b3d0d  
Successfully built lens-metric pandas  
Installing collected packages: pyDeprecate, portalocker, nvidia-cuda-runtime-cu11, nvidia-cuda-nvrtc-cu11, nvidia-cublas-cu11, lightning-utilities, jsonargparse, colorama, sacrebleu, pandas, nvidia-cudnn-cu11, torch, torchmetrics, pytorch-lightning, lens-metric  
 Attempting uninstall: pandas  
 Found existing installation: pandas 1.5.3  
 Uninstalling pandas-1.5.3:  
 Successfully uninstalled pandas-1.5.3  
 Attempting uninstall: torch  
 Found existing installation: torch 2.2.1+cu121

Uninstalling torch-2.2.1+cu121:

Successfully uninstalled torch-2.2.1+cu121

ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.

arviz 0.15.1 requires pandas>=1.3.0, but you have pandas 1.1.5 which is incompatible.

bigframes 0.24.0 requires pandas<2.1.4,>=1.5.0, but you have pandas 1.1.5 which is incompatible.

bokeh 3.3.4 requires pandas>=1.2, but you have pandas 1.1.5 which is incompatible.

google-colab 1.0.0 requires pandas==1.5.3, but you have pandas 1.1.5 which is incompatible.

ibis-framework 8.0.0 requires pandas<3,>=1.2.5, but you have pandas 1.1.5 which is incompatible.

mizani 0.9.3 requires pandas>=1.3.5, but you have pandas 1.1.5 which is incompatible.

panel 1.3.8 requires pandas>=1.2, but you have pandas 1.1.5 which is incompatible.

plotnine 0.12.4 requires pandas>=1.5.0, but you have pandas 1.1.5 which is incompatible.

seaborn 0.13.1 requires pandas>=1.2, but you have pandas 1.1.5 which is incompatible.

torchaudio 2.2.1+cu121 requires torch==2.2.1, but you have torch 1.13.1 which is incompatible.

torchdata 0.7.1 requires torch>=2, but you have torch 1.13.1 which is incompatible.

torchtext 0.17.1 requires torch==2.2.1, but you have torch 1.13.1 which is incompatible.

torchvision 0.17.1+cu121 requires torch==2.2.1, but you have torch 1.13.1 which is incompatible.

xarray 2023.7.0 requires pandas>=1.4, but you have pandas 1.1.5 which is incompatible.

yfinance 0.2.37 requires pandas>=1.3.0, but you have pandas 1.1.5 which is incompatible.

Successfully installed colorama-0.4.6 jsonargparse-3.13.1 lens-metric-0.1.1 lightning-utilities-0.10.1 nvidia-cublas-cu11-11.10.3.66 nvidia-cuda-nvrtc-cu11-11.7.99 nvidia-cuda-runtime-cu11-11.7.99 nvidia-cudnn-cu11-8.5.0.96 pandas-1.1.5 portalocker-2.8.2 pyDeprecate-0.3.2 pytorch-lightning-1.6.0 sacrebleu-2.4.1 torch-1.13.1 torchmetrics-1.3.1

% Total	% Received	% Xferd	Average	Speed	Time	Time	Time	Current			
			Dload	Upload	Total	Spent	Left	Speed			
d											
100	1177M	100	1177M	0	0	124M	0	0:00:09	0:00:09	--:--:--	127M

Archive: LENS-checkpoint.zip

creating: ./LENS/LENS/

inflating: ./LENS/LENS/.DS\_Store

inflating: ./LENS/\_\_MACOSX/LENS/.\_.DS\_Store

creating: ./LENS/LENS/checkpoints/

inflating: ./LENS/LENS/hparams.yaml

inflating: ./LENS/\_\_MACOSX/LENS/.\_hparams.yaml

inflating: ./LENS/LENS/checkpoints/epoch=5-step=6102.ckpt

Cloning into 'AlignScore'...

remote: Enumerating objects: 202, done.

```

remote: Counting objects: 100% (71/71), done.
remote: Compressing objects: 100% (53/53), done.
remote: Total 202 (delta 45), reused 36 (delta 18), pack-reused 131
Receiving objects: 100% (202/202), 531.19 KiB | 5.16 MiB/s, done.
Resolving deltas: 100% (111/111), done.
Processing ./AlignScore
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Collecting datasets<3,>=2.3.2 (from alignscore==0.1.3)
  Downloading datasets-2.18.0-py3-none-any.whl (510 kB)
  _____ 510.5/510.5 kB 3.6 MB/s eta 0:
00:00
Collecting jsonlines<3,>=2.0.0 (from alignscore==0.1.3)
  Downloading jsonlines-2.0.0-py3-none-any.whl (6.3 kB)
Requirement already satisfied: nltk<4,>=3.7 in /usr/local/lib/python3.10/dis
t-packages (from alignscore==0.1.3) (3.8.1)
Requirement already satisfied: numpy<2,>=1.23.1 in /usr/local/lib/python3.1
0/dist-packages (from alignscore==0.1.3) (1.25.2)
Collecting protobuf<=3.20 (from alignscore==0.1.3)
  Downloading protobuf-3.20.0-cp310-cp310-manylinux_2_12_x86_64.manylinux201
0_x86_64.whl (1.1 MB)
  _____ 1.1/1.1 MB 18.9 MB/s eta 0:00:
00
Collecting pytorch-lightning<2,>=1.7.7 (from alignscore==0.1.3)
  Downloading pytorch_lightning-1.9.5-py3-none-any.whl (829 kB)
  _____ 829.5/829.5 kB 60.3 MB/s eta
0:00:00
Requirement already satisfied: scikit-learn<2,>=1.1.2 in /usr/local/lib/pyth
on3.10/dist-packages (from alignscore==0.1.3) (1.2.2)
Requirement already satisfied: scipy<2,>=1.8.1 in /usr/local/lib/python3.10/
dist-packages (from alignscore==0.1.3) (1.11.4)
Requirement already satisfied: spacy<4,>=3.4.0 in /usr/local/lib/python3.10/
dist-packages (from alignscore==0.1.3) (3.7.4)
Requirement already satisfied: tensorboard<3,>=2.12.0 in /usr/local/lib/pyth
on3.10/dist-packages (from alignscore==0.1.3) (2.15.2)
Requirement already satisfied: torch<2,>=1.12.1 in /usr/local/lib/python3.1
0/dist-packages (from alignscore==0.1.3) (1.13.1)
Requirement already satisfied: tqdm<5,>=4.64.0 in /usr/local/lib/python3.10/
dist-packages (from alignscore==0.1.3) (4.66.2)
Requirement already satisfied: transformers<5,>=4.20.1 in /usr/local/lib/pyt
hon3.10/dist-packages (from alignscore==0.1.3) (4.38.2)
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-pa
ckages (from datasets<3,>=2.3.2->alignscore==0.1.3) (3.13.1)
Requirement already satisfied: pyarrow>=12.0.0 in /usr/local/lib/python3.10/
dist-packages (from datasets<3,>=2.3.2->alignscore==0.1.3) (14.0.2)
Requirement already satisfied: pyarrow-hotfix in /usr/local/lib/python3.10/d
ist-packages (from datasets<3,>=2.3.2->alignscore==0.1.3) (0.6)
Collecting dill<0.3.9,>=0.3.0 (from datasets<3,>=2.3.2->alignscore==0.1.3)
  Downloading dill-0.3.8-py3-none-any.whl (116 kB)
  _____ 116.3/116.3 kB 17.0 MB/s eta
0:00:00
Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-pack
ages (from datasets<3,>=2.3.2->alignscore==0.1.3) (1.1.5)
Requirement already satisfied: requests>=2.19.0 in /usr/local/lib/python3.1
0/dist-packages (from datasets<3,>=2.3.2->alignscore==0.1.3) (2.31.0)

```



```
Collecting xxhash (from datasets<3,>=2.3.2->alignscore==0.1.3)
  Downloading xxhash-3.4.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x
86_64.whl (194 kB)
----- 194.1/194.1 kB 26.7 MB/s eta
0:00:00
Collecting multiprocessing (from datasets<3,>=2.3.2->alignscore==0.1.3)
  Downloading multiprocessing-0.70.16-py310-none-any.whl (134 kB)
----- 134.8/134.8 kB 20.8 MB/s eta
0:00:00
Requirement already satisfied: fsspec[http]<=2024.2.0,>=2023.1.0 in /usr/local/lib/python3.10/dist-packages (from datasets<3,>=2.3.2->alignscore==0.1.3) (2023.6.0)
Requirement already satisfied: aiohttp in /usr/local/lib/python3.10/dist-packages (from datasets<3,>=2.3.2->alignscore==0.1.3) (3.9.3)
Requirement already satisfied: huggingface-hub>=0.19.4 in /usr/local/lib/python3.10/dist-packages (from datasets<3,>=2.3.2->alignscore==0.1.3) (0.20.3)
Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from datasets<3,>=2.3.2->alignscore==0.1.3) (24.0)
Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.10/dist-packages (from datasets<3,>=2.3.2->alignscore==0.1.3) (6.0.1)
Requirement already satisfied: click in /usr/local/lib/python3.10/dist-packages (from nltk<4,>=3.7->alignscore==0.1.3) (8.1.7)
Requirement already satisfied: joblib in /usr/local/lib/python3.10/dist-packages (from nltk<4,>=3.7->alignscore==0.1.3) (1.3.2)
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.10/dist-packages (from nltk<4,>=3.7->alignscore==0.1.3) (2023.12.25)
Requirement already satisfied: torchmetrics>=0.7.0 in /usr/local/lib/python3.10/dist-packages (from pytorch-lightning<2,>=1.7.7->alignscore==0.1.3) (1.3.1)
Requirement already satisfied: typing-extensions>=4.0.0 in /usr/local/lib/python3.10/dist-packages (from pytorch-lightning<2,>=1.7.7->alignscore==0.1.3) (4.10.0)
Requirement already satisfied: lightning-utilities>=0.6.0.post0 in /usr/local/lib/python3.10/dist-packages (from pytorch-lightning<2,>=1.7.7->alignscore==0.1.3) (0.10.1)
Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from scikit-learn<2,>=1.1.2->alignscore==0.1.3) (3.3.0)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (3.0.12)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (1.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (1.0.10)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (2.0.8)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (3.0.9)
Requirement already satisfied: thinc<8.3.0,>=8.2.2 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (8.2.3)
Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (1.1.2)
Requirement already satisfied: srsly<3.0.0,>=2.4.3 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (2.4.8)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (2.0.10)
```



Requirement already satisfied: weasel<0.4.0,>=0.1.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (0.3.4)

Requirement already satisfied: typer<0.10.0,>=0.3.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (0.9.0)

Requirement already satisfied: smart-open<7.0.0,>=5.2.1 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (6.4.0)

Requirement already satisfied: pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (2.6.4)

Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (3.1.3)

Requirement already satisfied: setuptools in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (67.7.2)

Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4,>=3.4.0->alignscore==0.1.3) (3.3.0)

Requirement already satisfied: absl-py>=0.4 in /usr/local/lib/python3.10/dist-packages (from tensorboard<3,>=2.12.0->alignscore==0.1.3) (1.4.0)

Requirement already satisfied: grpcio>=1.48.2 in /usr/local/lib/python3.10/dist-packages (from tensorboard<3,>=2.12.0->alignscore==0.1.3) (1.62.1)

Requirement already satisfied: google-auth<3,>=1.6.3 in /usr/local/lib/python3.10/dist-packages (from tensorboard<3,>=2.12.0->alignscore==0.1.3) (2.27.0)

Requirement already satisfied: google-auth-oauthlib<2,>=0.5 in /usr/local/lib/python3.10/dist-packages (from tensorboard<3,>=2.12.0->alignscore==0.1.3) (1.2.0)

Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.10/dist-packages (from tensorboard<3,>=2.12.0->alignscore==0.1.3) (3.5.2)

Requirement already satisfied: six>1.9 in /usr/local/lib/python3.10/dist-packages (from tensorboard<3,>=2.12.0->alignscore==0.1.3) (1.16.0)

Requirement already satisfied: tensorboard-data-server<0.8.0,>=0.7.0 in /usr/local/lib/python3.10/dist-packages (from tensorboard<3,>=2.12.0->alignscore==0.1.3) (0.7.2)

Requirement already satisfied: werkzeug>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from tensorboard<3,>=2.12.0->alignscore==0.1.3) (3.0.1)

Requirement already satisfied: nvidia-cuda-runtime-cu11==11.7.99 in /usr/local/lib/python3.10/dist-packages (from torch<2,>=1.12.1->alignscore==0.1.3) (11.7.99)

Requirement already satisfied: nvidia-cudnn-cu11==8.5.0.96 in /usr/local/lib/python3.10/dist-packages (from torch<2,>=1.12.1->alignscore==0.1.3) (8.5.0.96)

Requirement already satisfied: nvidia-cublas-cu11==11.10.3.66 in /usr/local/lib/python3.10/dist-packages (from torch<2,>=1.12.1->alignscore==0.1.3) (11.10.3.66)

Requirement already satisfied: nvidia-cuda-nvrtc-cu11==11.7.99 in /usr/local/lib/python3.10/dist-packages (from torch<2,>=1.12.1->alignscore==0.1.3) (11.7.99)

Requirement already satisfied: wheel in /usr/local/lib/python3.10/dist-packages (from nvidia-cublas-cu11==11.10.3.66->torch<2,>=1.12.1->alignscore==0.1.3) (0.43.0)

Requirement already satisfied: tokenizers<0.19,>=0.14 in /usr/local/lib/python3.10/dist-packages (from transformers<5,>=4.20.1->alignscore==0.1.3) (0.15.2)

Requirement already satisfied: safetensors>=0.4.1 in /usr/local/lib/python3.10/dist-packages (from transformers<5,>=4.20.1->alignscore==0.1.3) (0.4.2)

Requirement already satisfied: aiohttp>=1.1.2 in /usr/local/lib/python3.10/dist-packages (from aiohttp->datasets<3,>=2.3.2->alignscore==0.1.3) (1.3.0)

1)  
Requirement already satisfied: attrs<=17.3.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp->datasets<3,>=2.3.2->alignscore==0.1.3) (23.2.0)  
Requirement already satisfied: frozenlist<=1.1.1 in /usr/local/lib/python3.10/dist-packages (from aiohttp->datasets<3,>=2.3.2->alignscore==0.1.3) (1.4.1)  
Requirement already satisfied: multidict<7.0,>=4.5 in /usr/local/lib/python3.10/dist-packages (from aiohttp->datasets<3,>=2.3.2->alignscore==0.1.3) (6.0.5)  
Requirement already satisfied: yarl<2.0,>=1.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp->datasets<3,>=2.3.2->alignscore==0.1.3) (1.9.4)  
Requirement already satisfied: async-timeout<5.0,>=4.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp->datasets<3,>=2.3.2->alignscore==0.1.3) (4.0.3)  
Requirement already satisfied: cachetools<6.0,>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from google-auth<3,>=1.6.3->tensorboard<3,>=2.12.0->alignscore==0.1.3) (5.3.3)  
Requirement already satisfied: pyasn1-modules<=0.2.1 in /usr/local/lib/python3.10/dist-packages (from google-auth<3,>=1.6.3->tensorboard<3,>=2.12.0->alignscore==0.1.3) (0.3.0)  
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.10/dist-packages (from google-auth<3,>=1.6.3->tensorboard<3,>=2.12.0->alignscore==0.1.3) (4.9)  
Requirement already satisfied: requests-oauthlib<=0.7.0 in /usr/local/lib/python3.10/dist-packages (from google-auth-oauthlib<2,>=0.5->tensorboard<3,>=2.12.0->alignscore==0.1.3) (1.4.0)  
Requirement already satisfied: annotated-types<=0.4.0 in /usr/local/lib/python3.10/dist-packages (from pydantic!=1.8,!<1.8.1,<3.0.0,>=1.7.4->spacy<4,>=3.4.0->alignscore==0.1.3) (0.6.0)  
Requirement already satisfied: pydantic-core==2.16.3 in /usr/local/lib/python3.10/dist-packages (from pydantic!=1.8,!<1.8.1,<3.0.0,>=1.7.4->spacy<4,>=3.4.0->alignscore==0.1.3) (2.16.3)  
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests<=2.19.0->datasets<3,>=2.3.2->alignscore==0.1.3) (3.3.2)  
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests<=2.19.0->datasets<3,>=2.3.2->alignscore==0.1.3) (3.6)  
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests<=2.19.0->datasets<3,>=2.3.2->alignscore==0.1.3) (2.0.7)  
Requirement already satisfied: certifi<=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests<=2.19.0->datasets<3,>=2.3.2->alignscore==0.1.3) (2024.2.2)  
Requirement already satisfied: blis<0.8.0,>=0.7.8 in /usr/local/lib/python3.10/dist-packages (from thinc<8.3.0,>=8.2.2->spacy<4,>=3.4.0->alignscore==0.1.3) (0.7.11)  
Requirement already satisfied: confection<1.0.0,>=0.0.1 in /usr/local/lib/python3.10/dist-packages (from thinc<8.3.0,>=8.2.2->spacy<4,>=3.4.0->alignscore==0.1.3) (0.1.4)  
Requirement already satisfied: cloudpathlib<0.17.0,>=0.7.0 in /usr/local/lib/python3.10/dist-packages (from weasel<0.4.0,>=0.1.0->spacy<4,>=3.4.0->alignscore==0.1.3) (0.16.0)  
Requirement already satisfied: MarkupSafe<=2.1.1 in /usr/local/lib/python3.10/dist-packages (from werkzeug<=1.0.1->tensorboard<3,>=2.12.0->alignscore==0.1.3) (2.1.5)

Requirement already satisfied: python-dateutil>=2.7.3 in /usr/local/lib/python3.10/dist-packages (from pandas->datasets<3,>=2.3.2->alignscore==0.1.3) (2.8.2)

Requirement already satisfied: pytz>=2017.2 in /usr/local/lib/python3.10/dist-packages (from pandas->datasets<3,>=2.3.2->alignscore==0.1.3) (2023.4)

Requirement already satisfied: pyasn1<0.6.0,>=0.4.6 in /usr/local/lib/python3.10/dist-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard<3,>=2.12.0->alignscore==0.1.3) (0.5.1)

Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.10/dist-packages (from requests-oauthlib>=0.7.0->google-auth-oauthlib<2,>=0.5->tensorboard<3,>=2.12.0->alignscore==0.1.3) (3.2.2)

Building wheels for collected packages: alignscore

Building wheel for alignscore (pyproject.toml) ... done

Created wheel for alignscore: filename=alignscore-0.1.3-py3-none-any.whl size=18371 sha256=19de2b0778feae0856e5f6e787f07046ca5c93f3ad758c431c2ecabe947dd3bd

Stored in directory: /tmp/pip-ephem-wheel-cache-a1me\_gpx/wheels/ee/d8/57/1c2e3c762866923a4b5d4f13d741d115e8211ea39e8e736188

Successfully built alignscore

Installing collected packages: xxhash, protobuf, jsonlines, dill, multiprocessing, datasets, pytorch-lightning, alignscore

Attempting uninstall: protobuf

Found existing installation: protobuf 3.20.3

Uninstalling protobuf-3.20.3:

Successfully uninstalled protobuf-3.20.3

Attempting uninstall: pytorch-lightning

Found existing installation: pytorch-lightning 1.6.0

Uninstalling pytorch-lightning-1.6.0:

Successfully uninstalled pytorch-lightning-1.6.0

ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.

google-ai-generativelanguage 0.4.0 requires protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-api-core 2.11.1 requires protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-aiplatform 1.43.0 requires protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-bigquery 3.12.0 requires protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-bigquery-connection 1.12.1 requires protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-bigquery-storage 2.24.0 requires protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-datastore 2.15.2 requires protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-firestore 2.11.1 requires protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-functions 1.13.3 requires protobuf!=3.20.0,!3.20.1,!4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-iam 2.14.3 requires protobuf!=3.20.0,!3.20.1,!4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-language 2.13.3 requires protobuf!=3.20.0,!3.20.1,!4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-resource-manager 1.12.3 requires protobuf!=3.20.0,!3.20.1,!4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

google-cloud-translate 3.11.3 requires protobuf!=3.20.0,!3.20.1,!4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

googleapis-common-protos 1.63.0 requires protobuf!=3.20.0,!3.20.1,!4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

grpc-google-iam-v1 0.13.0 requires protobuf!=3.20.0,!3.20.1,!4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<5.0.0dev,>=3.19.5, but you have protobuf 3.20.0 which is incompatible.

lens-metric 0.1.1 requires pytorch-lightning==1.6.0, but you have pytorch-lightning 1.9.5 which is incompatible.

tensorflow 2.15.0 requires protobuf!=4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<5.0.0dev,>=3.20.3, but you have protobuf 3.20.0 which is incompatible.

tensorflow-metadata 1.14.0 requires protobuf<4.21,>=3.20.3, but you have protobuf 3.20.0 which is incompatible.

Successfully installed alignscore-0.1.3 datasets-2.18.0 dill-0.3.8 jsonlines-2.0.0 multiprocessing-0.70.16 protobuf-3.20.0 pytorch-lightning-1.9.5 xxhash-3.4.1

Collecting en-core-web-sm==3.7.1

Downloading [https://github.com/explosion/spacy-models/releases/download/en\\_core\\_web\\_sm-3.7.1/en\\_core\\_web\\_sm-3.7.1-py3-none-any.whl](https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-3.7.1/en_core_web_sm-3.7.1-py3-none-any.whl) (12.8 MB)

---

12.8/12.8 MB 31.5 MB/s eta 0:00:00

Requirement already satisfied: spacy<3.8.0,>=3.7.2 in /usr/local/lib/python3.10/dist-packages (from en-core-web-sm==3.7.1) (3.7.4)

Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in /usr/local/lib/python3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (3.0.12)

Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in /usr/local/lib/python3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (1.0.5)

Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (1.0.10)

Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (2.0.8)

Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (3.0.9)

Requirement already satisfied: thinc<8.3.0,>=8.2.2 in /usr/local/lib/python3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (8.2.3)

Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in /usr/local/lib/python3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (1.1.2)

Requirement already satisfied: srsly<3.0.0,>=2.4.3 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (2.4.8)

Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (2.0.10)

Requirement already satisfied: weasel<0.4.0,>=0.1.0 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (0.3.4)

Requirement already satisfied: typer<0.10.0,>=0.3.0 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (0.9.0)

Requirement already satisfied: smart-open<7.0.0,>=5.2.1 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (6.4.0)

Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (4.66.2)

Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (2.31.0)

Requirement already satisfied: pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (2.6.4)

Requirement already satisfied: jinja2 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (3.1.3)

Requirement already satisfied: setuptools in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (67.7.2)

Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (24.0)

Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (3.3.0)

Requirement already satisfied: numpy>=1.19.0 in /usr/local/lib/python 3.10/dist-packages (from spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (1.25.2)

Requirement already satisfied: annotated-types>=0.4.0 in /usr/local/lib/python 3.10/dist-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (0.6.0)

Requirement already satisfied: pydantic-core==2.16.3 in /usr/local/lib/python 3.10/dist-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (2.16.3)

Requirement already satisfied: typing-extensions>=4.6.1 in /usr/local/lib/python 3.10/dist-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (4.10.0)

Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python 3.10/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (3.3.2)

Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python 3.10/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (3.6)

Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python 3.10/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (2.0.7)

Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python 3.10/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (2024.2.2)

Requirement already satisfied: blis<0.8.0,>=0.7.8 in /usr/local/lib/python 3.10/dist-packages (from thinc<8.3.0,>=8.2.2->spacy<3.8.0,>=3.7.2->en-core-web-sm==3.7.1) (0.7.11)



```
Resolving cdn-lfs.huggingface.co (cdn-lfs.huggingface.co)... 18.154.185.27,  
18.154.185.26, 18.154.185.94, ...  
Connecting to cdn-lfs.huggingface.co (cdn-lfs.huggingface.co)|18.154.185.27  
|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 1966965771 (1.8G) [binary/octet-stream]  
Saving to: './AlignScore/AlignScore-base.ckpt'
```

```
AlignScore-base.ckpt 100%[=====>] 1.83G 243MB/s in 9.9s
```

```
2024-03-15 20:57:55 (190 MB/s) - './AlignScore/AlignScore-base.ckpt' saved  
[1966965771/1966965771]
```

## 2. Install the environment dependencies

```
In [6]: #set up the enviornment for running evaluate.py  
!pip install -r /content/drive/MyDrive/BioLaySumm2024-evaluation_scripts/rec
```



Collecting textstat (from -r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 1))

Downloading textstat-0.7.3-py3-none-any.whl (105 kB)

105.1/105.1 kB 1.2 MB/s eta 0:

00:00

Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from -r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 2)) (1.25.2)

Collecting rouge-score (from -r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 3))

Downloading rouge\_score-0.1.2.tar.gz (17 kB)

Preparing metadata (setup.py) ... done

Collecting bert-score (from -r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4))

Downloading bert\_score-0.3.13-py3-none-any.whl (61 kB)

61.1/61.1 kB 5.7 MB/s eta 0:0

0:00

Collecting summac (from -r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 5))

Downloading summac-0.0.4-py3-none-any.whl (30 kB)

Collecting pyphen (from textstat->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 1))

Downloading pyphen-0.14.0-py3-none-any.whl (2.0 MB)

2.0/2.0 MB 11.7 MB/s eta 0:00:

00

Requirement already satisfied: absl-py in /usr/local/lib/python3.10/dist-packages (from rouge-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 3)) (1.4.0)

Requirement already satisfied: nltk in /usr/local/lib/python3.10/dist-packages (from rouge-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 3)) (3.8.1)

Requirement already satisfied: six>=1.14.0 in /usr/local/lib/python3.10/dist-packages (from rouge-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 3)) (1.16.0)

Requirement already satisfied: torch>=1.0.0 in /usr/local/lib/python3.10/dist-packages (from bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (1.13.1)

Requirement already satisfied: pandas>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (1.1.5)

Requirement already satisfied: transformers>=3.0.0 in /usr/local/lib/python3.10/dist-packages (from bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (4.38.2)

Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (2.31.0)

Requirement already satisfied: tqdm>=4.31.1 in /usr/local/lib/python3.10/dist-packages (from bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (4.66.2)

Requirement already satisfied: matplotlib in /usr/local/lib/python3.10/dist-packages (from bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (3.7.1)

Requirement already satisfied: packaging>=20.9 in /usr/local/lib/python3.10/dist-packages (from bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (24.0)

Collecting huggingface-hub<=0.17.0 (from summac->-r /content/drive/MyDrive/B

ioLaySumm2024-evaluation\_scripts/requirements.txt (line 5))

Downloading huggingface\_hub-0.17.0-py3-none-any.whl (294 kB)

294.8/294.8 kB 27.3 MB/s eta

0:00:00

Requirement already satisfied: sentencepiece in /usr/local/lib/python3.10/dist-packages (from summac->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 5)) (0.1.99)

Requirement already satisfied: protobuf in /usr/local/lib/python3.10/dist-packages (from summac->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 5)) (3.20.0)

Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from huggingface\_hub<=0.17.0->summac->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 5)) (3.13.1)

Requirement already satisfied: fsspec in /usr/local/lib/python3.10/dist-packages (from huggingface\_hub<=0.17.0->summac->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 5)) (2023.6.0)

Requirement already satisfied: pyyaml<=5.1 in /usr/local/lib/python3.10/dist-packages (from huggingface\_hub<=0.17.0->summac->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 5)) (6.0.1)

Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.10/dist-packages (from huggingface\_hub<=0.17.0->summac->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 5)) (4.10.0)

Requirement already satisfied: click in /usr/local/lib/python3.10/dist-packages (from nltk->rouge-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 3)) (8.1.7)

Requirement already satisfied: joblib in /usr/local/lib/python3.10/dist-packages (from nltk->rouge-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 3)) (1.3.2)

Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.10/dist-packages (from nltk->rouge-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 3)) (2023.12.25)

Requirement already satisfied: python-dateutil>=2.7.3 in /usr/local/lib/python3.10/dist-packages (from pandas>=1.0.1->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (2.8.2)

Requirement already satisfied: pytz>=2017.2 in /usr/local/lib/python3.10/dist-packages (from pandas>=1.0.1->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (2023.4)

Requirement already satisfied: nvidia-cuda-runtime-cu11==11.7.99 in /usr/local/lib/python3.10/dist-packages (from torch>=1.0.0->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (11.7.99)

Requirement already satisfied: nvidia-cudnn-cu11==8.5.0.96 in /usr/local/lib/python3.10/dist-packages (from torch>=1.0.0->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (8.5.0.96)

Requirement already satisfied: nvidia-cublas-cu11==11.10.3.66 in /usr/local/lib/python3.10/dist-packages (from torch>=1.0.0->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (11.10.3.66)

Requirement already satisfied: nvidia-cuda-nvrtc-cu11==11.7.99 in /usr/local/lib/python3.10/dist-packages (from torch>=1.0.0->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (11.7.99)

Requirement already satisfied: setuptools in /usr/local/lib/python3.10/dist-packages (from nvidia-cublas-cu11==11.10.3.66->torch>=1.0.0->bert-score->-r

/content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (67.7.2)

Requirement already satisfied: wheel in /usr/local/lib/python3.10/dist-packages (from nvidia-cublas-cu11==11.10.3.66->torch>=1.0.0->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (0.43.0)

INFO: pip is looking at multiple versions of transformers to determine which version is compatible with other requirements. This could take a while.

Collecting transformers>=3.0.0 (from bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4))

Downloading transformers-4.38.1-py3-none-any.whl (8.5 MB)

00  8.5/8.5 MB 30.6 MB/s eta 0:00:

Downloading transformers-4.38.0-py3-none-any.whl (8.5 MB)

00  8.5/8.5 MB 32.9 MB/s eta 0:00:

Downloading transformers-4.37.2-py3-none-any.whl (8.4 MB)

00  8.4/8.4 MB 61.0 MB/s eta 0:00:

Downloading transformers-4.37.1-py3-none-any.whl (8.4 MB)

00  8.4/8.4 MB 60.7 MB/s eta 0:00:

Downloading transformers-4.37.0-py3-none-any.whl (8.4 MB)

00  8.4/8.4 MB 53.2 MB/s eta 0:00:

Downloading transformers-4.36.2-py3-none-any.whl (8.2 MB)

00  8.2/8.2 MB 53.9 MB/s eta 0:00:

Downloading transformers-4.36.1-py3-none-any.whl (8.3 MB)

00  8.3/8.3 MB 61.1 MB/s eta 0:00:

INFO: pip is looking at multiple versions of transformers to determine which version is compatible with other requirements. This could take a while.

Downloading transformers-4.36.0-py3-none-any.whl (8.2 MB)

00  8.2/8.2 MB 52.6 MB/s eta 0:00:

Downloading transformers-4.35.2-py3-none-any.whl (7.9 MB)

00  7.9/7.9 MB 50.6 MB/s eta 0:00:

Requirement already satisfied: tokenizers<0.19,>=0.14 in /usr/local/lib/python3.10/dist-packages (from transformers>=3.0.0->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (0.15.2)

Requirement already satisfied: safetensors>=0.3.1 in /usr/local/lib/python3.10/dist-packages (from transformers>=3.0.0->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (0.4.2)

Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (1.2.0)

Requirement already satisfied: cycycler>=0.10 in /usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (0.12.1)

Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (4.49.0)

Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score->-r /content/drive/MyDrive/BioLaySumm2024-evaluation\_scripts/requirements.txt (line 4)) (1.4.5)

```

0/dist-packages (from matplotlib->bert-score->-r /content/drive/MyDrive/BioL
aySumm2024-evaluation_scripts/requirements.txt (line 4)) (1.4.5)
Requirement already satisfied: pillow>=6.2.0 in /usr/local/lib/python3.10/di
st-packages (from matplotlib->bert-score->-r /content/drive/MyDrive/BioLaySu
mm2024-evaluation_scripts/requirements.txt (line 4)) (9.4.0)
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.1
0/dist-packages (from matplotlib->bert-score->-r /content/drive/MyDrive/BioL
aySumm2024-evaluation_scripts/requirements.txt (line 4)) (3.1.2)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/py
thon3.10/dist-packages (from requests->bert-score->-r /content/drive/MyDriv
e/BioLaySumm2024-evaluation_scripts/requirements.txt (line 4)) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dis
t-packages (from requests->bert-score->-r /content/drive/MyDrive/BioLaySumm2
024-evaluation_scripts/requirements.txt (line 4)) (3.6)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.
10/dist-packages (from requests->bert-score->-r /content/drive/MyDrive/BioLa
ySumm2024-evaluation_scripts/requirements.txt (line 4)) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.
10/dist-packages (from requests->bert-score->-r /content/drive/MyDrive/BioLa
ySumm2024-evaluation_scripts/requirements.txt (line 4)) (2024.2.2)
Building wheels for collected packages: rouge-score
  Building wheel for rouge-score (setup.py) ... done
  Created wheel for rouge-score: filename=rouge_score-0.1.2-py3-none-any.whl
size=24933 sha256=02cda55227583ce98ff66937b49f78441dbf8e66a132cc2bcb1166ceb3
94a636
  Stored in directory: /root/.cache/pip/wheels/5f/dd/89/461065a73be61a532ff8
599a28e9beef17985c9e9c31e541b4
Successfully built rouge-score
Installing collected packages: pyphen, textstat, rouge-score, huggingface-hu
b, transformers, summac, bert-score
  Attempting uninstall: huggingface-hub
    Found existing installation: huggingface-hub 0.20.3
    Uninstalling huggingface-hub-0.20.3:
      Successfully uninstalled huggingface-hub-0.20.3
  Attempting uninstall: transformers
    Found existing installation: transformers 4.38.2
    Uninstalling transformers-4.38.2:
      Successfully uninstalled transformers-4.38.2
ERROR: pip's dependency resolver does not currently take into account all th
e packages that are installed. This behaviour is the source of the following
dependency conflicts.
datasets 2.18.0 requires huggingface-hub>=0.19.4, but you have huggingface-h
ub 0.17.0 which is incompatible.
lens-metric 0.1.1 requires pytorch-lightning==1.6.0, but you have pytorch-li
ghtning 1.9.5 which is incompatible.
Successfully installed bert-score-0.3.13 huggingface-hub-0.17.0 pyphen-0.14.
0 rouge-score-0.1.2 summac-0.0.4 textstat-0.7.3 transformers-4.35.2

```

```

In [7]: # Setting environment variable such that the result are deterministic
import os
os.environ['CUBLAS_WORKSPACE_CONFIG'] = ':4096:8'

```

## 3. Evaluation

- It will take around 12 hours to run on T4.
- The outputs will be saved in the root directory.

Provided evaluation code:

- evaluate.py

Calling the code in nb:

```
!python PATH/T0/evaluate.py /path/to/predicted/summaries  
/path/to/validation/data
```

Outputs:

1. /content/summac\_conv\_vitc\_sent\_perc\_e.bin
2. /content/elife\_scores.txt
3. /content/plos\_scores.txt
4. /content/scores.txt

```
In [ ]: !python /content/drive/MyDrive/BioLaySumm2024-evaluation_scripts/evaluate.py
```

```

[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data]   Unzipping tokenizers/punkt.zip.
Downloading tokenizer_config.json: 100% 25.0/25.0 [00:00<00:00, 113kB/s]
Downloading config.json: 100% 482/482 [00:00<00:00, 3.01MB/s]
Downloading vocab.json: 100% 899k/899k [00:00<00:00, 10.2MB/s]
Downloading merges.txt: 100% 456k/456k [00:00<00:00, 18.3MB/s]
Downloading tokenizer.json: 100% 1.36M/1.36M [00:00<00:00, 18.5MB/s]
Downloading model.safetensors: 100% 1.42G/1.42G [00:10<00:00, 134MB/s]
Some weights of RobertaModel were not initialized from the model checkpoint
at roberta-large and are newly initialized: ['roberta.pooler.dense.weight',
'roberta.pooler.dense.bias']
You should probably TRAIN this model on a down-stream task to be able to use
it for predictions and inference.
calculating scores...
computing bert embedding.
100% 8/8 [00:29<00:00, 3.64s/it]
computing greedy matching.
100% 4/4 [00:00<00:00, 14.60it/s]
done in 29.44 seconds, 8.19 sentences/sec
Lightning automatically upgraded your loaded checkpoint from v1.6.0 to v1.9.
5. To apply the upgrade to your files permanently, run `python -m pytorch_li
ghtning.utilities.upgrade_checkpoint --file models/LENS/LENS/checkpoints/epo
ch=5-step=6102.ckpt`
3
/usr/local/lib/python3.10/dist-packages/pytorch_lightning/core/saving.py:25
5: UserWarning: Found keys that are not in the model state dict but in the c
heckpoint: ['encoder.model.embeddings.position_ids']
rank_zero_warn(
/usr/local/lib/python3.10/dist-packages/pytorch_lightning/trainer/connecto
r/accelerator_connector.py:478: LightningDeprecationWarning: Setting `Traine
r(gpus=1)` is deprecated in v1.7 and will be removed in v2.0. Please use `Tr
ainer(accelerator='gpu', devices=1)` instead.
rank_zero_deprecation(
GPU available: True (cuda), used: True
TPU available: False, using: 0 TPU cores
IPU available: False, using: 0 IPUs
HPU available: False, using: 0 HPUs
LOCAL_RANK: 0 - CUDA_VISIBLE_DEVICES: [0]
Predicting DataLoader 0: 100% 31/31 [00:56<00:00, 1.82s/it]
Downloading config.json: 100% 481/481 [00:00<00:00, 2.14MB/s]
Downloading model.safetensors: 100% 499M/499M [00:04<00:00, 118MB/s]
Some weights of RobertaModel were not initialized from the model checkpoint
at roberta-base and are newly initialized: ['roberta.pooler.dense.weight',
'roberta.pooler.dense.bias']
You should probably TRAIN this model on a down-stream task to be able to use
it for predictions and inference.
Lightning automatically upgraded your loaded checkpoint from v1.7.7 to v1.9.
5. To apply the upgrade to your files permanently, run `python -m pytorch_li
ghtning.utilities.upgrade_checkpoint --file models/AlignScore/AlignScore-bas
e.ckpt`
Some weights of RobertaModel were not initialized from the model checkpoint
at roberta-base and are newly initialized: ['roberta.pooler.dense.weight',
'roberta.pooler.dense.bias']
You should probably TRAIN this model on a down-stream task to be able to use
it for predictions and inference.
/usr/local/lib/python3.10/dist-packages/pytorch_lightning/core/saving.py:25

```

```

5: UserWarning: Found keys that are not in the model state dict but in the c
heckpoint: ['base_model.embeddings.position_ids']
  rank_zero_warn(
Downloading tokenizer_config.json: 100% 25.0/25.0 [00:00<00:00, 156kB/s]
Downloading vocab.json: 100% 899k/899k [00:00<00:00, 13.5MB/s]
Downloading merges.txt: 100% 456k/456k [00:00<00:00, 42.4MB/s]
Downloading tokenizer.json: 100% 1.36M/1.36M [00:00<00:00, 44.5MB/s]
Evaluating: 100% 241/241 [44:23<00:00, 11.05s/it]
--2024-03-15 21:46:44-- https://github.com/tingofurro/summac/raw/master/sum
mac_conv_vitc_sent_perc_e.bin
Resolving github.com (github.com)... 140.82.113.4
Connecting to github.com (github.com)|140.82.113.4|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://raw.githubusercontent.com/tingofurro/summac/master/summac_
conv_vitc_sent_perc_e.bin [following]
--2024-03-15 21:46:44-- https://raw.githubusercontent.com/tingofurro/summa
c/master/summac_conv_vitc_sent_perc_e.bin
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.1
11.133, 185.199.108.133, 185.199.110.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.
111.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1811 (1.8K) [application/octet-stream]
Saving to: 'summac_conv_vitc_sent_perc_e.bin'

summac_conv_vitc_se 100%[=====>] 1.77K --.-KB/s in 0s

2024-03-15 21:46:44 (34.4 MB/s) - 'summac_conv_vitc_sent_perc_e.bin' saved
[1811/1811]

<All keys matched successfully>
Downloading tokenizer_config.json: 100% 217/217 [00:00<00:00, 1.27MB/s]
Downloading config.json: 100% 1.09k/1.09k [00:00<00:00, 5.94MB/s]
Downloading spiece.model: 100% 760k/760k [00:00<00:00, 11.3MB/s]
Downloading (...)cial_tokens_map.json: 100% 156/156 [00:00<00:00, 638kB/s]
Downloading model.safetensors: 100% 235M/235M [00:01<00:00, 186MB/s]
/usr/local/lib/python3.10/dist-packages/summac/model_summac.py:298: UserWarn
ing: Creating a tensor from a list of numpy.ndarrays is extremely slow. Plea
se consider converting the list to a single numpy.ndarray with numpy.array()
before converting to a tensor. (Triggered internally at ../torch/csrc/utils/
tensor_new.cpp:230.)
  histograms = torch.FloatTensor(histograms).to(self.device)
Some weights of RobertaModel were not initialized from the model checkpoint
at roberta-large and are newly initialized: ['roberta.pooler.dense.weight',
'roberta.pooler.dense.bias']
You should probably TRAIN this model on a down-stream task to be able to use
it for predictions and inference.
calculating scores...
computing bert embedding.
100% 43/43 [02:35<00:00, 3.62s/it]
computing greedy matching.
100% 22/22 [00:01<00:00, 15.42it/s]
done in 157.29 seconds, 8.75 sentences/sec
Lightning automatically upgraded your loaded checkpoint from v1.6.0 to v1.9.
5. To apply the upgrade to your files permanently, run `python -m pytorch_li
ghtning.utilities.upgrade_checkpoint --file models/LENS/LENS/checkpoints/epo

```



```

ch=5-step=6102.ckpt`
3
/usr/local/lib/python3.10/dist-packages/pytorch_lightning/core/saving.py:25
5: UserWarning: Found keys that are not in the model state dict but in the c
heckpoint: ['encoder.model.embeddings.position_ids']
    rank_zero_warn(
/usr/local/lib/python3.10/dist-packages/pytorch_lightning/trainer/connector
s/accelerator_connector.py:478: LightningDeprecationWarning: Setting `Traine
r(gpus=1)` is deprecated in v1.7 and will be removed in v2.0. Please use `Tr
ainer(accelerator='gpu', devices=1)` instead.
    rank_zero_deprecation(
GPU available: True (cuda), used: True
TPU available: False, using: 0 TPU cores
IPU available: False, using: 0 IPUs
HPU available: False, using: 0 HPUs
LOCAL_RANK: 0 - CUDA_VISIBLE_DEVICES: [0]
Predicting: 0it [00:00, ?it/s]huggingface/tokenizers: The current process ju
st got forked, after parallelism has already been used. Disabling parallelis
m to avoid deadlocks...
To disable this warning, you can either:
    - Avoid using `tokenizers` before the fork if possible
    - Explicitly set the environment variable TOKENIZERS_PARALLELISM=(tr
ue | false)
huggingface/tokenizers: The current process just got forked, after paralleli
sm has already been used. Disabling parallelism to avoid deadlocks...
To disable this warning, you can either:
    - Avoid using `tokenizers` before the fork if possible
    - Explicitly set the environment variable TOKENIZERS_PARALLELISM=(tr
ue | false)
Predicting DataLoader 0: 100% 172/172 [06:08<00:00, 2.14s/it]
Some weights of RobertaModel were not initialized from the model checkpoint
at roberta-base and are newly initialized: ['roberta.pooler.dense.weight',
'roberta.pooler.dense.bias']
You should probably TRAIN this model on a down-stream task to be able to use
it for predictions and inference.
Lightning automatically upgraded your loaded checkpoint from v1.7.7 to v1.9.
5. To apply the upgrade to your files permanently, run `python -m pytorch_li
ghtning.utilities.upgrade_checkpoint --file models/AlignScore/AlignScore-bas
e.ckpt`
Some weights of RobertaModel were not initialized from the model checkpoint
at roberta-base and are newly initialized: ['roberta.pooler.dense.weight',
'roberta.pooler.dense.bias']
You should probably TRAIN this model on a down-stream task to be able to use
it for predictions and inference.
/usr/local/lib/python3.10/dist-packages/pytorch_lightning/core/saving.py:25
5: UserWarning: Found keys that are not in the model state dict but in the c
heckpoint: ['base_model.embeddings.position_ids']
    rank_zero_warn(
Evaluating: 100% 1376/1376 [4:48:27<00:00, 12.58s/it]
<All keys matched successfully>

```

In [ ]: