Weights and Biases Logger

This notebook logs the evaluation metrics of dev set and test set on every model.

```
In [ ]: import pandas as pd
        import wandb
        from configparser import ConfigParser
        .cfg file is a config file that store your personal api key The format inside the file looks
        like this:
            [<YOUR API KEY NAME>]
            auth_key: <HERE_IS_YOUR_API_KEY>
        .gitignore is set on .cfg
In [7]: parser = ConfigParser()
        _ = parser.read("../notebook.cfg")
        wandb_api_auth_key = parser.get("wandb_api_key", "auth_key")
In [8]: wandb.login(key=wandb api auth key)
       wandb: Currently logged in as: haydenchiush. Use `wandb login --relogin` to
       force relogin
       wandb: WARNING If you're specifying your api key in code, ensure this code i
       s not shared publicly.
       wandb: WARNING Consider setting the WANDB API KEY environment variable, or r
       unning `wandb login` from the command line.
       wandb: Appending key for api.wandb.ai to your netrc file: /Users/haydenchi
       u/.netrc
Out[8]: True
```

Validation set

```
In [18]: PROJECT_NAME = 'BioLaySumm2024'# wandb project name
    ENTITY = 'bossy_beaver' #change to your wandb team name
    PATH_TO_VAL_METRICS = './Proxy_val_Results'
    VAL_METRICS_FILES = ['elife_scores.txt', 'plos_scores.txt', 'scores.txt']

In [26]: # For example we can use these parameters to define our metrics
    # file = 'elife_scores.txt'
    # data_src = 'eLife_dev'
    # sample_portion = 0.1
    # name = 'dummy_baseline'
    # tags = ['baseline']
```

```
In [20]: # Initialize WandB
         def wandb_log_eval_metrics(file, data_src, sample_portion, name, tags, job_t
             run config = {'data src':data src, 'sample portion':sample portion}
              run = wandb.init(project=PROJECT NAME, entity=ENTITY,
                               job_type=job_type, tags=tags, name=name)
             # Open the file in read mode
             with open(PATH_TO_VAL_METRICS + "/" + file, 'r') as file:
                  lines = file.readlines()
             # Create an empty dictionary to store the metrics
             metrics = {}
             # Iterate over each line
             for line in lines:
                  # Split the line into key and value using ':' as the delimiter
                  key, value = line.strip().split(': ')
                  # Store the key-value pair in the dictionary
                  metrics[key] = float(value)
             print(metrics)
             # Log metrics to WandB
             run.log(metrics)
             # Finish WandB run
             run.finish()
In [22]: # eLife dummy baseline on 10% dev set
         wandb_log_eval_metrics(file='elife_scores.txt', data_src='eLife_dev', sample
                                 name='elife dummy baseline', tags=['baseline'])
        wandb: Currently logged in as: haydenchiush (bossy_beaver). Use `wandb login
        --relogin` to force relogin
       wandb version 0.16.4 is available! To upgrade, please run: $ pip install wandb --upgrade
       Tracking run with wandb version 0.16.3
       Run data is saved locally in /Users/haydenchiu/MDS-
       CL/BioLaySumm2024/COLX_531_bossy_beaver/milestone2/wandb/run-
       20240316 180321-kgrw4l9l
       Syncing run elife_dummy_baseline to Weights & Biases (docs)
       View project at https://wandb.ai/bossy_beaver/BioLaySumm2024
       View run at https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/kqrw4l9l
        {'ROUGE1': 0.32312883506775875, 'ROUGE2': 0.065595999095099, 'ROUGEL': 0.300
        8124655909614, 'BERTScore': 0.8375861893097559, 'FKGL': 15.13333333333335,
        'DCRS': 11.590416666666664, 'CLI': 16.84541666666665, 'LENS': 39.6381475972
        8811, 'AlignScore': 0.9943027173479398, 'SummaC': 0.9525209615627924}
        VBox(children=(Label(value='0.001 MB of 0.001 MB uploaded\r'), FloatProgress
        (value=1.0, max=1.0)))
```

Run history:

Run summary:

AlignScore	_	AlignScore	0.9943
BERTScore	_	BERTScore	0.83759
CLI	_	CLI	16.84542
DCRS	_	DCRS	11.59042
FKGL	_	FKGL	15.13333
LENS	_	LENS	39.63815
ROUGE1	_	ROUGE1	0.32313
ROUGE2	_	ROUGE2	0.0656
ROUGEL	_	ROUGEL	0.30081
SummaC	_	SummaC	0.95252

View run elife_dummy_baseline at:

https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/kqrw4l9l

View job at

https://wandb.ai/bossy_beaver/BioLaySumm2024/jobs/QXJ0aWZhY3RDb2xsZWN0aW9uOjE0O

Synced 6 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20240316_180321-kqrw4l9l/logs

wandb version 0.16.4 is available! To upgrade, please run: \$ pip install wandb --upgrade Tracking run with wandb version 0.16.3

Run data is saved locally in /Users/haydenchiu/MDS-

CL/BioLaySumm2024/COLX_531_bossy_beaver/milestone2/wandb/run-20240316_180339-559am2mj

Syncing run **plos_dummy_baseline** to Weights & Biases (docs)

View project at https://wandb.ai/bossy_beaver/BioLaySumm2024

View run at https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/559am2mj

```
{'ROUGE1': 0.5125303136128874, 'ROUGE2': 0.21055582506879417, 'ROUGEL': 0.47 67545280909615, 'BERTScore': 0.8725961204888164, 'FKGL': 14.94927536231884, 'DCRS': 10.976449275362318, 'CLI': 16.293840579710146, 'LENS': 38.6190405789 40265, 'AlignScore': 0.9880770807680876, 'SummaC': 0.9578714357770007} VBox(children=(Label(value='0.001 MB of 0.001 MB uploaded\r'), FloatProgress (value=1.0, max=1.0)))
```

Run history:

Run summary:

AlignScore	_	AlignScore	0.98808
BERTScore	_	BERTScore	0.8726
CLI	_	CLI	16.29384
DCRS	_	DCRS	10.97645
FKGL	_	FKGL	14.94928
LENS	_	LENS	38.61904
ROUGE1	_	ROUGE1	0.51253
ROUGE2	_	ROUGE2	0.21056
ROUGEL	_	ROUGEL	0.47675
SummaC	_	SummaC	0.95787

View run plos_dummy_baseline at:

https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/559am2mj

View job at

https://wandb.ai/bossy_beaver/BioLaySumm2024/jobs/QXJ0aWZhY3RDb2xsZWN0aW9uOjE0O

Synced 6 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20240316_180339-559am2mj/logs

wandb version 0.16.4 is available! To upgrade, please run: \$ pip install wandb --upgrade Tracking run with wandb version 0.16.3

Run data is saved locally in /Users/haydenchiu/MDS-

CL/BioLaySumm2024/COLX_531_bossy_beaver/milestone2/wandb/run-20240316_180533-wyn0doir

Syncing run **dummy_baseline** to Weights & Biases (docs)

View project at https://wandb.ai/bossy_beaver/BioLaySumm2024

View run at https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/wyn0doir

```
{'ROUGE1': 0.4178295743403231, 'ROUGE2': 0.13807591208194658, 'ROUGEL': 0.38 87834968409615, 'BERTScore': 0.8550911548992861, 'FKGL': 15.041304347826088, 'DCRS': 11.283432971014491, 'CLI': 16.569628623188407, 'LENS': 39.1285940881 14184, 'AlignScore': 0.9911898990580137, 'SummaC': 0.9551961986698966} VBox(children=(Label(value='0.001 MB of 0.001 MB uploaded\r'), FloatProgress (value=1.0, max=1.0)))
```

Run history:

Run summary:

AlignScore	_	AlignScore	0.99119
BERTScore	_	BERTScore	0.85509
CLI	_	CLI	16.56963
DCRS	_	DCRS	11.28343
FKGL	_	FKGL	15.0413
LENS	_	LENS	39.12859
ROUGE1	_	ROUGE1	0.41783
ROUGE2	_	ROUGE2	0.13808
ROUGEL	_	ROUGEL	0.38878
SummaC	_	SummaC	0.9552

View run **dummy_baseline** at:

https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/wyn0doir

View job at

https://wandb.ai/bossy_beaver/BioLaySumm2024/jobs/QXJ0aWZhY3RDb2xsZWN0aW9uOjE0O

Synced 6 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20240316_180533-wyn0doir/logs

Test Set

wandb version 0.16.4 is available! To upgrade, please run: \$ pip install wandb --upgrade Tracking run with wandb version 0.16.3

Run data is saved locally in /Users/haydenchiu/MDS-

CL/BioLaySumm2024/COLX_531_bossy_beaver/milestone2/wandb/run-20240316_181600-a4kjesen

Syncing run elife_dummy_baseline_test to Weights & Biases (docs)

View project at https://wandb.ai/bossy_beaver/BioLaySumm2024

View run at https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/a4kjesen

{'ROUGE1': 0.3089138993381871, 'ROUGE2': 0.06957613212293816, 'ROUGEL': 0.28 13751343330106, 'BERTScore': 0.8407322109585077, 'FKGL': 15.080985915492958, 'DCRS': 11.753802816901409, 'CLI': 17.258943661971827, 'LENS': 30.2414510614 8018, 'AlignScore': 0.9781640558175637, 'SummaC': 0.9402011343291108} VBox(children=(Label(value='0.001 MB of 0.001 MB uploaded\r'), FloatProgress (value=1.0, max=1.0)))

Run history: Run summary:

AlignScore	_	AlignScore	0.97816
BERTScore	_	BERTScore	0.84073
CLI	_	CLI	17.25894
DCRS	_	DCRS	11.7538
FKGL	_	FKGL	15.08099
LENS	_	LENS	30.24145
ROUGE1	_	ROUGE1	0.30891
ROUGE2	_	ROUGE2	0.06958
ROUGEL	_	ROUGEL	0.28138
SummaC	_	SummaC	0.9402

View run elife_dummy_baseline_test at:

https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/a4kjesen

View job at

https://wandb.ai/bossy_beaver/BioLaySumm2024/jobs/QXJ0aWZhY3RDb2xsZWN0aW9uOjE00

Synced 6 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20240316_181600-a4kjesen/logs

wandb version 0.16.4 is available! To upgrade, please run: \$ pip install wandb --upgrade Tracking run with wandb version 0.16.3

Run data is saved locally in /Users/haydenchiu/MDS-

CL/BioLaySumm2024/COLX_531_bossy_beaver/milestone2/wandb/run-20240316 181649-bdffic27

Syncing run **plos_dummy_baseline_test** to Weights & Biases (docs)

View project at https://wandb.ai/bossy_beaver/BioLaySumm2024

View run at https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/bdffic27

{'ROUGE1': 0.461164102179743, 'ROUGE2': 0.16057957580294918, 'ROUGEL': 0.417 8593622680423, 'BERTScore': 0.8693121696861696, 'FKGL': 14.751408450704227, 'DCRS': 11.793098591549297, 'CLI': 16.704154929577463, 'LENS': 35.3026783293 1986, 'AlignScore': 0.9772088964220503, 'SummaC': 0.9488216630170043} VBox(children=(Label(value='0.001 MB of 0.001 MB uploaded\r'), FloatProgress (value=1.0, max=1.0)))

Run history: Run summary:

AlignScore	_	AlignScore	0.97721
BERTScore	_	BERTScore	0.86931
CLI	_	CLI	16.70415
DCRS	_	DCRS	11.7931
FKGL	_	FKGL	14.75141
LENS	_	LENS	35.30268
ROUGE1	_	ROUGE1	0.46116
ROUGE2	_	ROUGE2	0.16058
ROUGEL	_	ROUGEL	0.41786
SummaC	_	SummaC	0.94882

View run plos_dummy_baseline_test at:

https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/bdffic27

View job at

https://wandb.ai/bossy_beaver/BioLaySumm2024/jobs/QXJ0aWZhY3RDb2xsZWN0aW9uOjE00

Synced 6 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20240316_181649-bdffic27/logs

wandb version 0.16.4 is available! To upgrade, please run: \$ pip install wandb --upgrade Tracking run with wandb version 0.16.3

Run data is saved locally in /Users/haydenchiu/MDS-

CL/BioLaySumm2024/COLX_531_bossy_beaver/milestone2/wandb/run-20240316_181727-shde10wi

Syncing run **dummy_baseline_test** to Weights & Biases (docs)

View project at https://wandb.ai/bossy_beaver/BioLaySumm2024

View run at https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/shde10wi

{'ROUGE1': 0.385039000758965, 'ROUGE2': 0.11507785396294368, 'ROUGEL': 0.349 61724830052643, 'BERTScore': 0.8550221903223387, 'FKGL': 14.916197183098593, 'DCRS': 11.773450704225354, 'CLI': 16.981549295774645, 'LENS': 32.7720646954 0002, 'AlignScore': 0.977686476119807, 'SummaC': 0.9445113986730576} VBox(children=(Label(value='0.001 MB of 0.001 MB uploaded\r'), FloatProgress (value=1.0, max=1.0)))

Run history: Run summary:

AlignScore	_	AlignScore	0.97769
BERTScore	_	BERTScore	0.85502
CLI	_	CLI	16.98155
DCRS	_	DCRS	11.77345
FKGL	_	FKGL	14.9162
LENS	_	LENS	32.77206
ROUGE1	_	ROUGE1	0.38504
ROUGE2	_	ROUGE2	0.11508
ROUGEL	_	ROUGEL	0.34962
SummaC	_	SummaC	0.94451

View run **dummy_baseline_test** at:

https://wandb.ai/bossy_beaver/BioLaySumm2024/runs/shde10wi

View job at

https://wandb.ai/bossy_beaver/BioLaySumm2024/jobs/QXJ0aWZhY3RDb2xsZWN0aW9uOjE0O

Synced 6 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20240316_181727-shde10wi/logs

In []: