

NL4OPT Q&A Sessions

Session 1
August 9, 2022

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Evaluation Details

Evaluation Server

We will be using the Lambda Labs for evaluating the submissions.

2x A100 (40 GB)	60 vCPUs, 400 GiB RAM, 1 TiB SSD	\$ 2.20 / hr
4x A100 (40 GB)	120 vCPUs, 800 GiB RAM, 1 TiB SSD	\$ 4.40 / hr
NEW! 8x A100 (40 GB SXM4)	124 vCPUs, 1800 GiB RAM, 6 TiB SSD	\$ 8.80 / hr
1x A6000 (48 GB)	14 vCPUs, 100 GiB RAM, 200 GiB SSD	\$ 0.80 / hr
2x A6000 (48 GB)	28 vCPUs, 200 GiB RAM, 1 TiB SSD	\$ 1.60 / hr
4x A6000 (48 GB)	56 vCPUs, 400 GiB RAM, 1 TiB SSD	\$ 3.20 / hr

We encourage you to test your script on the same instance (see above) to ensure that the model runs smoothly.

Submission Folder

Since the submissions are evaluated using a bash script, your submission folder should follow the following structure:

- **subtask1**
 - submission folder 1
 - ...
 - **evaluate.sh**
 - submission folder 2
 - ...
 - submission folder 3
 - ...
- **subtask2**
 - ...

Note

Please ensure that exact names are used for the subtask folder and bash script, and at most 3 submission folders for each subtask

Saving Results

The corresponding test set will be copied into each submission folder, your script should produce a text file “results.out” with a single line for the evaluation metric

- **subtask1**
 - submission folder 1
 - ...
 - test.txt
 - evaluate.sh
 - results.out
 - ...
- **subtask2**
 - ...

Examples

Please refer to our example submissions for both subtasks on Google Drive

Things to Consider

CUDA Version

- Please ensure your installation supports Compute Capability 8.6 for A6000, the local CUDA version is 11.6

Runtime

- Due to the number of registered teams, please ensure that your evaluation scripts finish in a reasonable amount of time (< 10 min)

Storage Capacity

- Please refrain from storing overly large files in your submission folders (> 10GB).
- You can store parameters of overly large models in a remote location before copying them to the evaluation server

Using Conda in Shell Scripts

- Please include the following line to activate Conda environments inside your shell script
`source ~/miniconda3/etc/profile.d/conda.sh`

Competition Updates

Updates to Subtask-1 Data

(Discussion #8 & #15) We have removed white space tokens from the NER dataset for Subtask-1.

```
3 Bold - - 0
4 Tycoon - - 0
5 wants - - 0
6 to - - 0
7 put - - 0
8 his - - 0
9 $ - - 0
10 10,000 - - 0 B-LIMIT
11 to - - 0
12 work - - 0
13 and - - 0
14 decides - - 0
15 to - - 0
16 invest - - 0 B-CONST_DIR
17 his - - 0
18 money - - 0
19 in - - 0
20 GICs - - 0 B-VAR
21 and - - 0
22 index - - 0 B-VAR
23 ETF - - 0 I-VAR
24 . - - 0
25 GICs - - 0 B-VAR
26 - - - 0
27 yields - - 0
28 a - - 0
```

(a) Data before update

```
3 Bold - - 0
4 Tycoon - - 0
5 wants - - 0
6 to - - 0
7 put - - 0
8 his - - 0
9 $ - - 0
10 10,000 - - 0 B-LIMIT
11 to - - 0
12 work - - 0
13 and - - 0
14 decides - - 0
15 to - - 0
16 invest - - 0 B-CONST_DIR
17 his - - 0
18 money - - 0
19 in - - 0
20 GICs - - 0 B-VAR
21 and - - 0
22 index - - 0 B-VAR
23 ETF - - 0 I-VAR
24 . - - 0
25 GICs - - 0 B-VAR
26 yields - - 0
27 a - - 0
28 2 - - 0 B-PARAM
```

(b) Data after update

The held-out test set has also been updated to the same format.

(Discussion #24) After some considerations, we have decided against using the development set for training the model.

Note

Top submissions will be required to submit training code, where we will attempt to reproduce your approach without the development set.

General Q&A

Thank you for Joining!

Please continue to monitor our Website and Github Discussion Forum for announcements and updates.