基础作业

列出所有跟 internlm 及 ceval 相关的配置

```
(internlm-demo) root@intern-studio:~/code/opencompass# python tools/list_configs.py internlm ceval
+----------------------+----------------------------------------------------------+
| Model                | Config Path                                              |
|----------------------+----------------------------------------------------------|
| hf_internlm2_20b     | configs/models/hf_internlm/hf_internlm2_20b.py           |
| hf_internlm2_7b      | configs/models/hf_internlm/hf_internlm2_7b.py            |
| hf_internlm2_chat_20b| configs/models/hf_internlm/hf_internlm2_chat_20b.py      |
| hf_internlm2_chat_7b | configs/models/hf_internlm/hf_internlm2_chat_7b.py       |
| hf_internlm_20b      | configs/models/hf_internlm/hf_internlm_20b.py            |
| hf_internlm_7b       | configs/models/hf_internlm/hf_internlm_7b.py             |
| hf_internlm_chat_20b | configs/models/hf_internlm/hf_internlm_chat_20b.py       |
| hf_internlm_chat_7b  | configs/models/hf_internlm/hf_internlm_chat_7b.py        |
| hf_internlm_chat_7b_8k| configs/models/hf_internlm/hf_internlm_chat_7b_8k.py    |
| hf_internlm_chat_7b_v1_1| configs/models/hf_internlm/hf_internlm_chat_7b_v1_1.py|
| internlm_7b          | configs/models/internlm/internlm_7b.py                   |
| ms_internlm_chat_7b_8k| configs/models/ms_internlm/ms_internlm_chat_7b_8k.py    |
+----------------------+----------------------------------------------------------+

+-----------------------+----------------------------------------------------------+
| Dataset               | Config Path                                             |
|-----------------------+----------------------------------------------------------|
| ceval_clean_ppl       | configs/datasets/ceval/ceval_clean_ppl.py               |
| ceval_gen             | configs/datasets/ceval/ceval_gen.py                     |
| ceval_gen_2daf24      | configs/datasets/ceval/ceval_gen_2daf24.py              |
| ceval_gen_5f30c7      | configs/datasets/ceval/ceval_gen_5f30c7.py              |
| ceval_ppl             | configs/datasets/ceval/ceval_ppl.py                     |
| ceval_ppl_578f8d      | configs/datasets/ceval/ceval_ppl_578f8d.py              |
| ceval_ppl_93e5ce      | configs/datasets/ceval/ceval_ppl_93e5ce.py              |
| ceval_zero_shot_gen_bd40ef | configs/datasets/ceval/ceval_zero_shot_gen_bd40ef.py|
+-----------------------+----------------------------------------------------------+
```

使用 OpenCompass 评测 InternLM2-Chat-7B 模型在 C-Eval 数据集上的性能

```
python run.py --datasets ceval_gen \
--hf-path /share/temp/model_repos/internlm-chat-7b/  \
--tokenizer-path /share/temp/model_repos/internlm-chat-7b/  \
--tokenizer-kwargs padding_side='left' truncation='left' trust_remote_code=True \
--model-kwargs trust_remote_code=True device_map='auto' \
--max-seq-len 2048 --max-out-len 16 \
--batch-size 2 \
--num-gpus 1 --debug
```
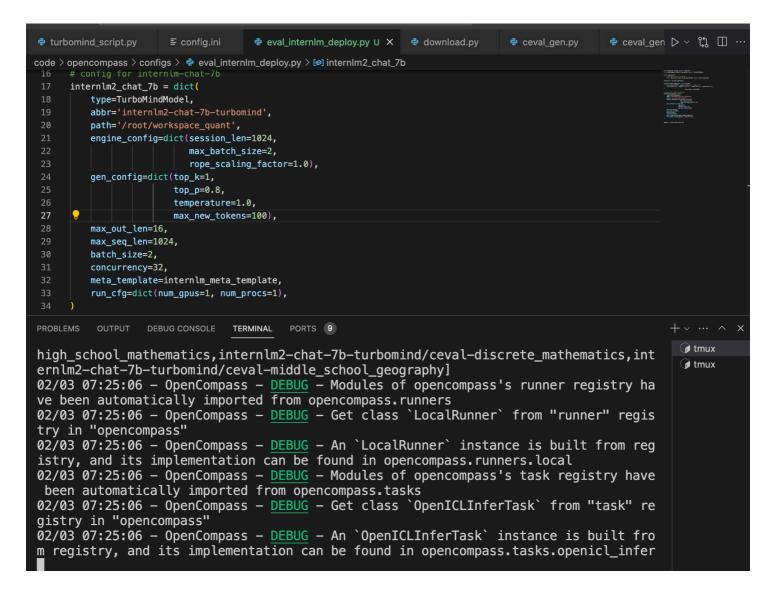
```
  3  ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  4  dataset                                          version    metric         mode    opencompass.models.huggingface.HuggingFace_model_repos_internlm-chat-7b
  5  -----------------------------------------------  ---------  -------------  ------  ----------------------------------------------------------------------
  6  ceval-computer_network                           db9ce2     accuracy       gen                                                                      36.84
  7  ceval-operating_system                           1c2571     accuracy       gen                                                                      36.84
  8  ceval-computer_architecture                      a74dad     accuracy       gen                                                                      28.57
  9  ceval-college_programming                        4ca32a     accuracy       gen                                                                      32.43
 10  ceval-college_physics                            963fa8     accuracy       gen                                                                      31.58
 11  ceval-college_chemistry                          e78857     accuracy       gen                                                                      16.67
 12  ceval-advanced_mathematics                       ce03e2     accuracy       gen                                                                      21.05
 13  ceval-probability_and_statistics                 65e812     accuracy       gen                                                                      38.89
 14  ceval-discrete_mathematics                       e894ae     accuracy       gen                                                                      18.75
 15  ceval-electrical_engineer                        ae42b9     accuracy       gen                                                                      35.14
 16  ceval-metrology_engineer                         ee34ea     accuracy       gen                                                                      50
 17  ceval-high_school_mathematics                    1dc5bf     accuracy       gen                                                                      22.22
 18  ceval-high_school_physics                        adf25f     accuracy       gen                                                                      31.58
 19  ceval-high_school_chemistry                      2ed27f     accuracy       gen                                                                      15.79
 20  ceval-high_school_biology                        8e2b9a     accuracy       gen                                                                      36.84
 21  ceval-middle_school_mathematics                  bee8d5     accuracy       gen                                                                      26.32
 22  ceval-middle_school_biology                      86817c     accuracy       gen                                                                      61.9
 23  ceval-middle_school_physics                      8accf6     accuracy       gen                                                                      63.16
 24  ceval-middle_school_chemistry                    167a15     accuracy       gen                                                                      65
 25  ceval-veterinary_medicine                        b4e08d     accuracy       gen                                                                      47.83
 26  ceval-college_economics                          f3f4e6     accuracy       gen                                                                      38.18
 27  ceval-business_administration                    c1614e     accuracy       gen                                                                      33.33
 28  ceval-marxism                                    cf874c     accuracy       gen                                                                      68.42
 29  ceval-mao_zedong_thought                         51c7a4     accuracy       gen                                                                      70.83
 30  ceval-education_science                          591fee     accuracy       gen                                                                      58.62
 31  ceval-teacher_qualification                      4e4ced     accuracy       gen                                                                      68.18
 32  ceval-high_school_politics                       5c0de2     accuracy       gen                                                                      26.32
 33  ceval-high_school_geography                      865461     accuracy       gen                                                                      47.37
 34  ceval-middle_school_politics                     5be3e7     accuracy       gen                                                                      52.38
 35  ceval-middle_school_geography                    8a63be     accuracy       gen                                                                      58.33
 36  ceval-modern_chinese_history                     fc01af     accuracy       gen                                                                      73.91
 37  ceval-ideological_and_moral_cultivation          a2aa4a     accuracy       gen                                                                      63.16
 38  ceval-logic                                      f5b022     accuracy       gen                                                                      31.82
 39  ceval-law                                        a110a1     accuracy       gen                                                                      25
 40  ceval-chinese_language_and_literature            0f8b68     accuracy       gen                                                                      30.43
 41  ceval-art_studies                                2a1300     accuracy       gen                                                                      60.61
 42  ceval-professional_tour_guide                    4e673e     accuracy       gen                                                                      62.07
 43  ceval-legal_professional                         ce8787     accuracy       gen                                                                      39.13
 44  ceval-high_school_chinese                        315705     accuracy       gen                                                                      57.89
 45  ceval-high_school_history                        7eb30a     accuracy       gen                                                                      70
 46  ceval-middle_school_history                      48ab4a     accuracy       gen                                                                      59.09
 47  ceval-civil_servant                              87d061     accuracy       gen                                                                      53.19
 48  ceval-sports_science                             70f27b     accuracy       gen                                                                      52.63
 49  ceval-plant_protection                           8941f9     accuracy       gen                                                                      59.09
 50  ceval-basic_medicine                             c409d6     accuracy       gen                                                                      47.37
 51  ceval-clinical_medicine                          49e82d     accuracy       gen                                                                      40.91
 52  ceval-urban_and_rural_planner                    95b885     accuracy       gen                                                                      45.65
 53  ceval-accountant                                 002837     accuracy       gen                                                                      26.53
 54  ceval-fire_engineer                              bc23f5     accuracy       gen                                                                      22.58
 55  ceval-environmental_impact_assessment_engineer   c64e2d     accuracy       gen                                                                      64.52
 56  ceval-tax_accountant                             3a5e3c     accuracy       gen                                                                      34.69
 57  ceval-physician                                  6e277d     accuracy       gen                                                                      44.9
 58  ceval-stem                                       -          naive_average  gen                                                                      35.87
 59  ceval-social-science                             -          naive_average  gen                                                                      52.2
 60  ceval-humanities                                 -          naive_average  gen                                                                      52.1
 61  ceval-other                                      -          naive_average  gen                                                                      44.73
 62  ceval-hard                                       -          naive_average  gen                                                                      24.57
 63  ceval                                            -          naive_average  gen                                                                      44.32
 64  $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
```

进阶作业

使用 OpenCompass 评测 InternLM2-Chat-7B 模型使用 LMDeploy 0.2.0 部署后在 C-Eval 数据集上的性能

config 文件

```python
internlm_meta_template = dict(round=[
    dict(role='HUMAN', begin='<|User|>:', end='\n'),
    dict(role='BOT', begin='<|Bot|>:', end='<eoa>\n', generate=True),
],
                        eos_token_id=103028)

# config for internlm-chat-7b
internlm2_chat_7b = dict(
    type=TurboMindModel,
    abbr='internlm2-chat-7b-turbomind',
    path='/root/workspace_quant',
    engine_config=dict(session_len=2048,
                        max_batch_size=32,
                        rope_scaling_factor=1.0),
    gen_config=dict(top_k=1,
                    top_p=0.8,
                    temperature=1.0,
                    max_new_tokens=100),
    max_out_len=16,
    max_seq_len=2048,
    batch_size=2,
    concurrency=32,
    meta_template=internlm_meta_template,
    run_cfg=dict(num_gpus=1, num_procs=1),
)
```

code > opencompass > configs > ◆ eval_internlm_deploy.py > [∅] internlm2_chat_7b

```python
16     # config for internlm-chat-7b
17     internlm2_chat_7b = dict(
18         type=TurboMindModel,
19         abbr='internlm2-chat-7b-turbomind',
20         path='/root/workspace_quant',
21         engine_config=dict(session_len=1024,
22                            max_batch_size=2,
23                            rope_scaling_factor=1.0),
24         gen_config=dict(top_k=1,
25                         top_p=0.8,
26                         temperature=1.0,
27     💡                  max_new_tokens=100),
28         max_out_len=16,
29         max_seq_len=1024,
30         batch_size=2,
31         concurrency=32,
32         meta_template=internlm_meta_template,
33         run_cfg=dict(num_gpus=1, num_procs=1),
34     )
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS 9

```
high_school_mathematics,internlm2-chat-7b-turbomind/ceval-discrete_mathematics,int
ernlm2-chat-7b-turbomind/ceval-middle_school_geography]
02/03 07:25:06 - OpenCompass - DEBUG - Modules of opencompass's runner registry ha
ve been automatically imported from opencompass.runners
02/03 07:25:06 - OpenCompass - DEBUG - Get class `LocalRunner` from "runner" regis
try in "opencompass"
02/03 07:25:06 - OpenCompass - DEBUG - An `LocalRunner` instance is built from reg
istry, and its implementation can be found in opencompass.runners.local
02/03 07:25:06 - OpenCompass - DEBUG - Modules of opencompass's task registry have
 been automatically imported from opencompass.tasks
02/03 07:25:06 - OpenCompass - DEBUG - Get class `OpenICLInferTask` from "task" re
gistry in "opencompass"
02/03 07:25:06 - OpenCompass - DEBUG - An `OpenICLInferTask` instance is built fro
m registry, and its implementation can be found in opencompass.tasks.openicl_infer
```

tmux
tmux

机器时间到了，没能跑完最后的结果😂..

> ⓘ 开发机将在5分钟内关闭

运行时长   [0] 小时   [4] 分钟

合理使用 GPU 资源，避免算力浪费。单次可开启 7 天，按需续费

费用：3 算力点 / 小时，预计额外消费 0.00 算力点   取 消   立即续费
当前账户余额 0.01 算力点