Lesson 7 作业

OpenCompass 大模型评测

基础作业

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

```
(base) root@intern-studio-40069509:/opt/jupyterlab# conda create
  -name opencompass --clone=/root/share/conda_envs/internlm-base
Retrieving notices: ...working... done
        /root/share/conda_envs/internlm-base
Destination: /root/.conda/envs/opencompass
Packages: 96
Files: 0
Downloading and Extracting Packages:
Downloading and Extracting Packages:
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
# To activate this environment, use
    $ conda activate opencompass
# To deactivate an active environment, use
    $ conda deactivate
 (opencompass) root@intern-studio-40069509: # cd opencompass
bash: cd: opencompass: No such file or directory
 (opencompass) root@intern-studio-40069509: # git clone https:
//github.com/open-compass/opencompass
Cloning into 'opencompass'...
remote: Enumerating objects: 8422, done.
remote: Counting objects: 100% (989/989), done.
remote: Compressing objects: 100% (578/578), done.
remote: Total 8422 (delta 580), reused 672 (delta 401), pack-
reused 7433
Receiving objects: 100% (8422/8422), 3.27 MiB | 5.14 MiB/s, d
Resolving deltas: 100% (4890/4890), done.
Updating files: 100% (1847/1847), done.
 (opencompass) root@intern-studio-40069509: # cd opencompass
 (opencompass) root@intern-studio-40069509: \(^{\text{opencompass}}\) pip
install -e.
Looking in indexes: https://pypi.tuna.tsinghua.edu.cn/simple
Obtaining file:///root/opencompass
   Preparing metadata (setup.py) ... done
```

(opencompass) root@intern-studio-40069509: \(^{\text{opencompass}}\) python tools/list_configs.py internlm ceval

Model	Config Path
hf_internlm2_1_8b	configs/models/hf_internlm/hf_internlm2_1_8b.py
hf_internlm2_20b	configs/models/hf_internlm/hf_internlm2_20b.py
hf_intern1m2_7b	configs/models/hf_internlm/hf_internlm2_7b.py
hf_internlm2_base_20b	configs/models/hf_internlm/hf_internlm2_base_20b.py
hf_internlm2_base_7b	configs/models/hf_internlm/hf_internlm2_base_7b.py
hf_internlm2_chat_1_8b	configs/models/hf_internlm/hf_internlm2_chat_1_8b.py
hf_intern1m2_chat_1_8b_sft	configs/models/hf_internlm/hf_internlm2_chat_1_8b_sft.py
hf_intern1m2_chat_20b	configs/models/hf_internlm/hf_internlm2_chat_20b.py
hf_intern1m2_chat_20b_sft	configs/models/hf_internlm/hf_internlm2_chat_20b_sft.py
hf_intern1m2_chat_20b_with_system	configs/models/hf_internlm/hf_internlm2_chat_20b_with_system.py
hf_intern1m2_chat_7b	configs/models/hf_internlm/hf_internlm2_chat_7b.py
hf_internlm2_chat_7b_sft	configs/models/hf_internlm/hf_internlm2_chat_7b_sft.py
hf_intern1m2_chat_7b_with_system	configs/models/hf_internlm/hf_internlm2_chat_7b_with_system.py
hf_internlm2_chat_math_20b	configs/models/hf_internlm/hf_internlm2_chat_math_20b.py
hf_internlm2_chat_math_20b_with_system	configs/models/hf_internlm/hf_internlm2_chat_math_20b_with_system.py
hf_internlm2_chat_math_7b	configs/models/hf_internlm/hf_internlm2_chat_math_7b.py
hf_internlm2_chat_math_7b_with_system	configs/models/hf_internlm/hf_internlm2_chat_math_7b_with_system.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
lmdeploy_internlm2_chat_20b	configs/models/hf_internlm/1mdeploy_internlm2_chat_20b.py
lmdeploy_internlm2_chat_7b	configs/models/hf_internlm/lmdeploy_internlm2_chat_7b.py
ms_internlm_chat_7b_8k	configs/models/ms_internlm/ms_internlm_chat_7b_8k.py

Dataset	Config Path
ceval_clean_ppl ceval_contamination_ppl_810ec6 ceval_gen ceval_gen_2daf24 ceval_gen_5f30c7 ceval_internal_ppl_1cd8bf	configs/datasets/ceval/ceval_clean_ppl.py configs/datasets/contamination/ceval_contamination_ppl_810ec6.py configs/datasets/ceval/ceval_gen.py configs/datasets/ceval/ceval_gen_2daf24.py configs/datasets/ceval/ceval_gen_5f30c7.py configs/datasets/ceval/ceval_internal_ppl_1cd8bf.py

```
ceval_ppl_578f8d
                                 configs/datasets/ceval/ceval_ppl_578f8d.py
ceval_ppl_93e5ce
                                 configs/datasets/ceval/ceval_ppl_93e5ce.py
                                 configs/datasets/ceval/ceval zero shot gen bd40ef.py
ceval zero shot gen bd40ef
```

(opencompass) root@intern studio 4000509: 'opencompass# python run py —datasets ceval_gen —hf-path /share/temp/model_repos/internlar-chat-Tb/ —tokenizer-barts padding.side= left' truncation= left' trust_remote_code=True —model-lewargs trust_remote_code=True device_mmps at the law to —max region=lend 2008 —max root=lend logo deval_gen; configs/datasets/ceval/ceval_gen.py
04/13 11:08:24 - Opencompass — Loading ceval_gen; configs/datasets/ceval/ceval_gen.py
04/13 11:08:24 - Opencompass — Loading ceval_gen; configs/datasets/ceval/ceval_gen.py
04/13 11:08:24 - Opencompass — Partition in the law to the partition argument is ignored.
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04/13 11:08:43 - Opencompass — Partition in the law to the partition argument is ignored.
04/13 11:08:43 - Opencompass = model is huggingface. Biggingface good | repos_internlar-chat-Tb/ceval-tal_gencompass.py | Partition | Parti

dataset	version	metric	mode opencompass.models.huggingface.HuggingFace_model_repos_inte	rnlm-chat-7b
ceval-computer network	db9ce2	accuracy	gen	31. 58
ceval-operating system	1c2571	accuracy	gen	36. 84
ceval-computer_architecture	a74dad	accuracy	gen	28. 57
ceval-college_programming	4ca32a	accuracy	gen	32. 43
ceval-college_physics	963fa8	accuracy	gen	26. 32
ceval-college_chemistry	e78857	accuracy	gen	16.67
ceval-advanced_mathematics	ce03e2	accuracy	gen	21.05
ceval-probability_and_statistics	65e812	accuracy	gen	38. 89
ceval-discrete_mathematics	e894ae	accuracy	gen	18. 75
ceval-electrical_engineer	ae42b9	accuracy	gen	35. 14
ceval-metrology_engineer	ee34ea	accuracy	gen	50
ceval-high_school_mathematics	1dc5bf	accuracy	gen	22. 22
ceval-high_school_physics	adf25f	accuracy	gen	31. 58
ceval-high_school_chemistry	2ed27f	accuracy	gen	15. 79
ceval-high_school_biology	8e2b9a	accuracy	gen	36. 84
ceval-middle_school_mathematics	bee8d5	accuracy	gen	26. 32
ceval-middle_school_biology	86817c	accuracy	gen	61.9
ceval-middle_school_physics	8accf6	accuracy	gen	63. 16
ceval-middle_school_chemistry	167a15	accuracy	gen	60
ceval-veterinary_medicine	b4e08d	accuracy	gen	47.83
ceval-college_economics	f3f4e6	accuracy	gen	41.82
ceval-business_administration	c1614e	accuracy	gen	33. 33
ceval-marxism	cf874c	accuracy	gen	68. 42
ceval-mao_zedong_thought	51c7a4	accuracy	gen	70.83
ceval-education_science	591fee	accuracy	gen	58, 62
ceval-teacher qualification	4e4ced	accuracy	gen	70, 45
ceval-high_school_politics	5c0de2	accuracy	gen	26. 32
ceval-high_school_geography	865461	accuracy	gen	47.37
ceval-middle_school_politics	5be3e7	accuracy	gen	52, 38
ceval-middle_school_geography	8a63be	accuracy	gen	58. 33
ceval-modern chinese history	fc01af	accuracy	gen	73. 91
ceval-ideological_and_moral_cultivation	a2aa4a	accuracy	gen	63, 16
ceval-logic	f5b022	accuracy	gen	31. 82
ceval-law	a110a1	accuracy	gen	25
ceval-chinese_language_and_literature	0f8b68	accuracy	gen	30, 43
ceval-art_studies	2a1300	accuracy	gen	60. 61
ceval-professional_tour_guide	4e673e	accuracy	gen	62.07
ceval-legal_professional	ce8787	accuracy	gen	39. 13
ceval-high_school_chinese	315705	accuracy	gen	63. 16
ceval-high_school_history	7eb30a	accuracy	gen	70
ceval-middle_school_history	48ab4a	accuracy	gen	59.09
ceval-civil_servant	87d061	accuracy	gen	53. 19
ceval-sports_science	70f27b	accuracy	gen	52.63
ceval-plant_protection	8941f9	accuracy	gen	59.09
ceval-basic_medicine	c409d6	accuracy	gen	47.37
ceval-clinical_medicine	49e82d	accuracy	gen	40.91
ceval-urban_and_rural_planner	95b885	accuracy	gen	45.65
ceval-accountant	002837	accuracy	gen	26. 53
ceval-fire_engineer	bc23f5	accuracy	gen	22.58
ceval-environmental_impact_assessment_engineer	c64e2d	accuracy	gen	64. 52
ceval-tax_accountant	3a5e3c	accuracy	gen	34.69
ceval-physician	6e277d	accuracy	gen	40.82
ceval-stem	-	naive_average	gen	35.09
ceval-social-science	-	naive_average	gen	52.79
ceval-humanities	-	naive_average	gen	52. 58
ceval-other	-	naive_average	gen	44. 36
ceval-hard	_	naive_average	gen	23.91
cevar mara				
ceval	-	naive_average	gen	44. 16

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