

第六次课笔记（作业截图附后）

2024年1月28日 13:55

环境准备：

安装

面向GPU的环境安装

```
conda create --name opencompass --clone=/root/share/conda_envs/internlm-base
source activate opencompass
git clone https://github.com/open-compass/opencompass
cd opencompass
pip install -e .
```

有部分第三方功能,如代码能力基准测试 Humaneval 以及 Llama格式 的模型评测,可能需要额外步骤才能正常运行, 如需评测, 详细步骤请参考[安装指南](#)。

数据准备

```
# 解压评测数据集到 data/ 处
cp /share/temp/datasets/OpenCompassData-core-20231110.zip /root/opencompass/
unzip OpenCompassData-core-20231110.zip

# 将会在opencompass下看到data文件夹
```

查看支持的数据集和模型

```
# 列出所有跟 internlm 及 ceval 相关的配置
python tools/list_configs.py internlm ceval
```

显示结果：

(opencompass) root@intern-studio:~/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_l	configs/models/hf_internlm/hf_internlm_chat_7b_v1_l.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

启动评测：

```
(opencompass) root@intern-studio:~/opencompass# 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-kw args padding_side='left' truncation='left' trust_remote_code=True --model-kw args trust_remote_code=True device_map='auto' --max-seq-len 2048 --max-out-len 16 --batch-size 4 --num-gpus 1 --debug
```

评测结果：

dataset	version	metric	mode	opencompass.models.huggingface.HuggingFace_model_repos_internlm-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-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
ceval	-	naive_average	gen		44.16
01/28 14:25:39 - OpenCompass - INFO - write summary to /root/opencompass/outputs/default/20240128_135731/summary/summary_20240128_135731.txt					
01/28 14:25:39 - OpenCompass - INFO - write csv to /root/opencompass/outputs/default/20240128_135731/summary/summary_20240128_135731.csv					
(opencompass) root@intern-studio: ~/opencompass#					