# 关于ChatGLM2-6B训练的问题

# 主要问题

使用默认的脚本对ChatGLM2-6B模型进行训练后报错,暂时没有找到解决办法。

# 详细描述:

环境:使用glm2环境,如下所示。使用该环境在10月22日已经完成过一次训练,所以应该不是环境的问题。

• 脚本: 位于 /media/hnu/hnu2023/huangzhan/ChatGLM2-6B/ptuning/test.sh , 内容如下:

```
1 PRE_SEQ_LEN=128
    LR=2e-2 # 学习率
3
    NUM_GPUS=1 # gpu数量
4
    torchrun \ --standalone \ --nnodes=1 \ --nproc-per-node=\$NUM\_GPUS \ main.py \ \backslash
 5
 6
        --do_train \
 7
        --train_file /media/hnu/hnu2023/huangzhan/training/datax.jso \
        --validation_file /media/hnu/hnu2023/huangzhan/training/devx.json \
8
9
        --preprocessing_num_workers 10 \
10
        --prompt_column content \
        --response_column summary \
11
        --overwrite_cache \
12
13
        --model_name_or_path /media/hnu/hnu2023/huangzhan/chatglm2-6b \
14
        --output_dir /media/hnu/hnu2023/huangzhan/training/output2 \
15
        --overwrite_output_dir \
16
        --max_source_length 64 \
17
        --max_target_length 128 \
18
        --per_device_train_batch_size 1 \
19
        --per_device_eval_batch_size 1 \
20
        --gradient_accumulation_steps 16 \
21
        --predict_with_generate \
22
        --max_steps 3000 \
```

```
--logging_steps 10 \
--save_steps 1000 \
--learning_rate $LR \
--pre_seq_len $PRE_SEQ_LEN \
--quantization_bit 4
```

--train\_file, --validation\_file, --model\_name\_or\_path, --output\_dir分别标识了训练数据集、验证数据集、模型、输出文件夹的位置。

#### • 数据集:

该项目的标准数据集如下所示:

```
1 {"content": "类型#裙*材质#针织*颜色#纯色*风格#复古*风格#文艺*风格#简约*图案#格子*图案#纯色*图案#复古*裙型#背带裙*裙长#连衣裙*裙领型#半高领", "summary": "这款BRAND针织两件套连衣裙,简约的纯色半高领针织上衣,修饰着颈部线,尽显优雅气质。同时搭配叠穿起一条背带式的复古格纹裙,整体散发着一股怀旧的时髦魅力,很是文艺范。"}
2 {"content": "类型#上衣*风格#嘻哈*图案#卡通*图案#印花*图案#撞色*衣样式#卫衣*衣款式#连帽", "summary": "嘻哈玩转童年,随时<UNK>,没错,出街还是要靠卫衣来装酷哦!时尚个性的连帽设计,率性有范还防风保暖。还有胸前撞色的卡通印花设计,靓丽抢眼更富有趣味性,加上前幅大容量又时尚美观的袋鼠兜,简直就是孩子耍帅装酷必备的利器。"}
3 .....
```

### 本项目用于训练的数据集如下所示:

```
1 {
2
     "content": "试着提取下面日程信息中的时间, 地点和事件. 输出格式为起始时间: . . . . ;
  结束时间:....; 地点:...; 事件:....; 周期:....; 欢迎投稿WISE2023会议! 和Web
  Information Systems Engineering相关的论文都可以投,2023年10月25-27日在澳大利亚
  墨尔本开会,abstract和full paper的投稿截止时间都延期至6月20日,系统不会关 . 当前时
  间:2023-4-4",
     "summary": "起始时间:2023-4-4; 结束时间:2023-6-20; 地点:无; 事件:WISE2023
3
  会议投稿; 周期:单次;"
  }
4
5
  {
     "content": "试着提取下面日程信息中的时间, 地点和事件. 输出格式为起始时间:....;
  结束时间:....;地点:...; 事件:....; 周期:....; 科大讯飞手气星火营Spark Camp学
  院推荐.时间: 2023年8月15--8月25日.地点: 安徽合肥. 科大讯飞除了全程费用报销之外我们学
  院可推荐两名学生参训 当前时间:2023-7-4",
     "summary": "起始时间:2023-8-15; 结束时间:2023-8-25; 地点:安徽合肥; 事件:学
  院推荐两名学生去科大讯飞手气星火营Spark Camp; 周期:单次;"
  }
8
9 .....
```

### • 训练时的报错:

1 (glm2) [liwanyun@s2 ptuning]\$ bash train.sh
2 master\_addr is only used for static rdzv\_backend and when rdzv\_endpoint is not specified.
3 [E socket.cpp:860] [c10d] The client socket has timed out after 60s while trying to connect to (localhost, 29400).

```
[E socket.cpp:860] [c10d] The client socket has timed out after 60s
        while trying to connect to (localhost, 29400).
        Traceback (most recent call last):
  5
  6
           File
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.10/site-python3.1
        packages/torch/distributed/elastic/rendezvous/c10d_rendezvous_backend.py
        ", line 155, in _create_tcp_store
 7
               store = TCPStore(
       TimeoutError: The client socket has timed out after 60s while trying to
  8
        connect to (localhost, 29400).
  9
       The above exception was the direct cause of the following exception:
10
11
12
       Traceback (most recent call last):
           File "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/bin/torchrun",
13
        line 33, in <module>
               sys.exit(load_entry_point('torch==2.0.1', 'console_scripts',
14
        'torchrun')())
          File
15
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-
        packages/torch/distributed/elastic/multiprocessing/errors/__init__.py",
        line 346, in wrapper
16
               return f(*args, **kwargs)
17
            File
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-
        packages/torch/distributed/run.py", line 794, in main
18
                run(args)
            File
19
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-
        packages/torch/distributed/run.py", line 785, in run
                elastic_launch(
20
21
            File
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-
        packages/torch/distributed/launcher/api.py", line 134, in __call__
22
                return launch_agent(self._config, self._entrypoint, list(args))
23
            File
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-
        packages/torch/distributed/launcher/api.py", line 223, in launch_agent
                rdzv_handler=rdzv_registry.get_rendezvous_handler(rdzv_parameters),
24
25
            File
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-
        packages/torch/distributed/elastic/rendezvous/registry.py", line 65, in
        get_rendezvous_handler
26
               return handler_registry.create_handler(params)
27
            File
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-
        packages/torch/distributed/elastic/rendezvous/api.py", line 257, in
        create_handler
28
               handler = creator(params)
29
        "/media/hnu/hnu2023/huangzhan/.conda/envs/glm2/lib/python3.10/site-
        packages/torch/distributed/elastic/rendezvous/registry.py", line 36, in
        _create_c10d_handler
30
               backend, store = create_backend(params)
```

经过查询、各种尝试均不能解决该问题。