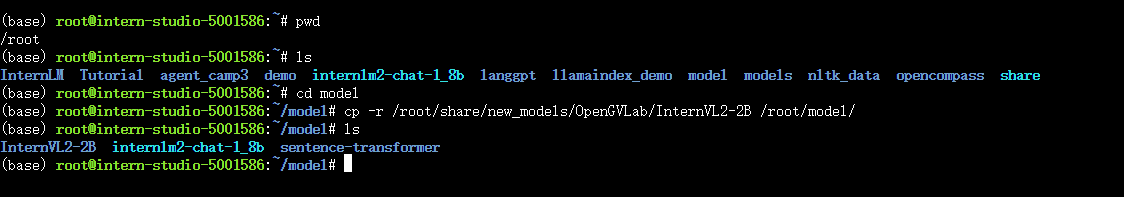
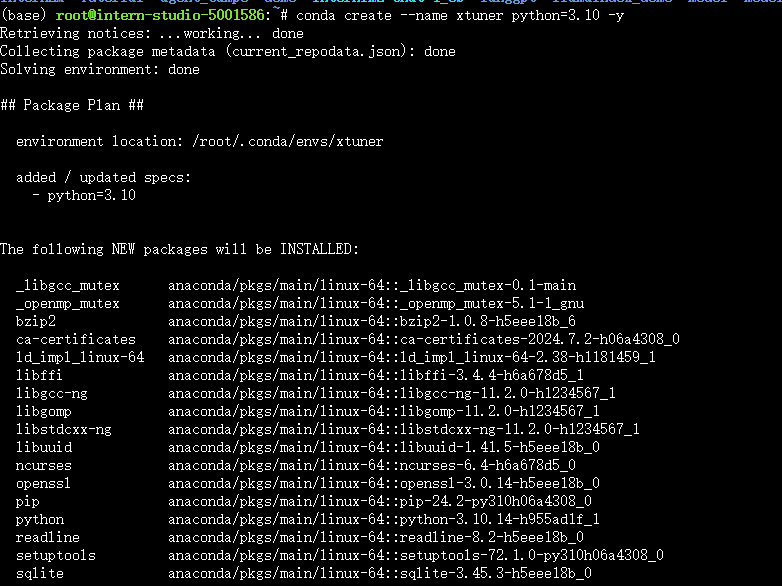
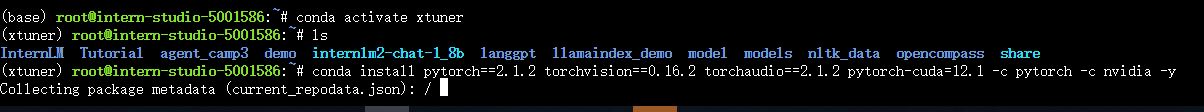
**InternVL 部署微调实践**

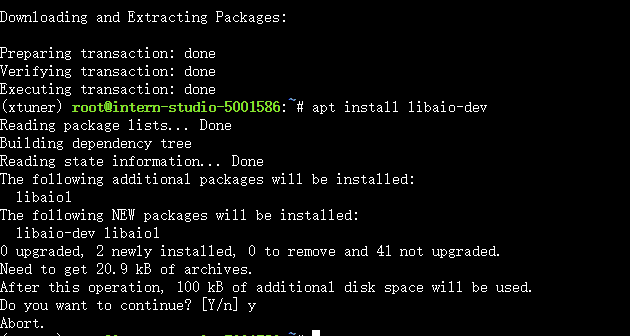
**准备InternVL模型**



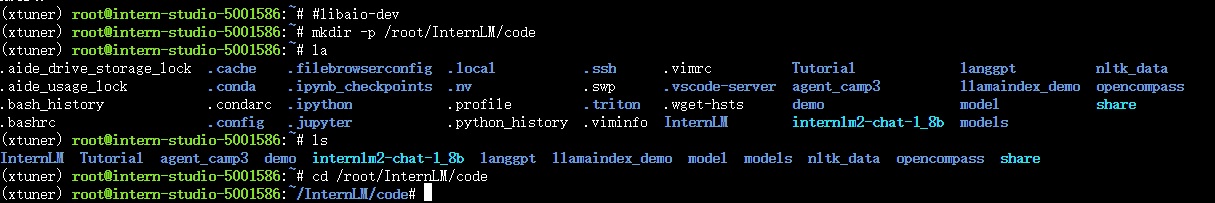
**准备环境**

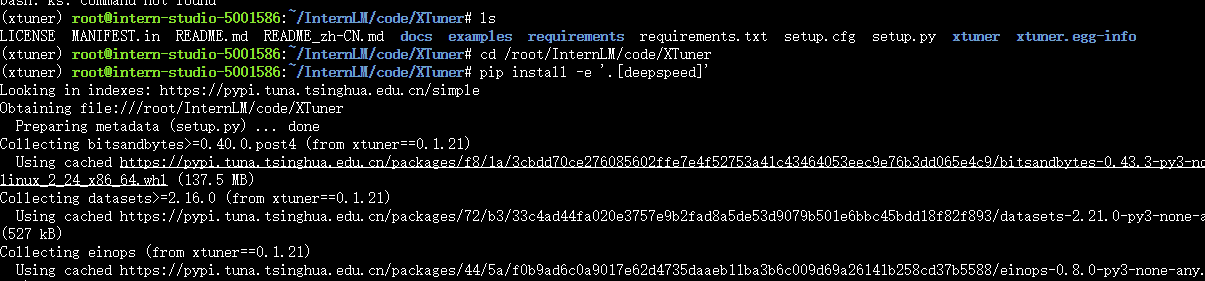


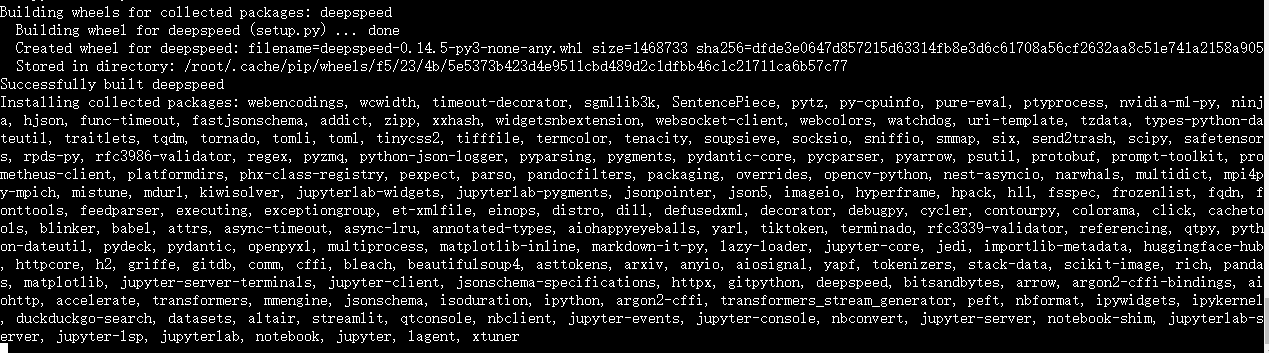


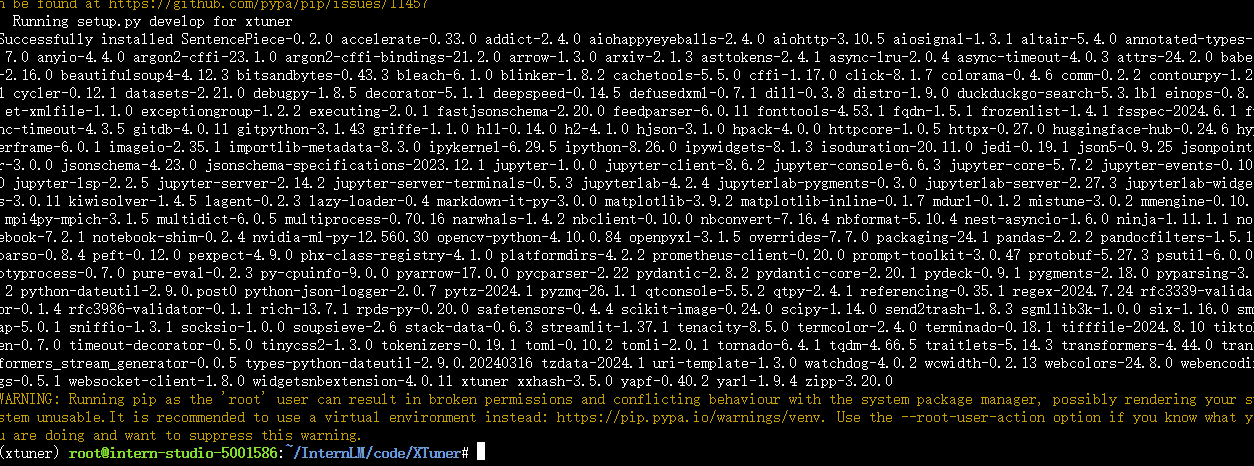


安装xtuner

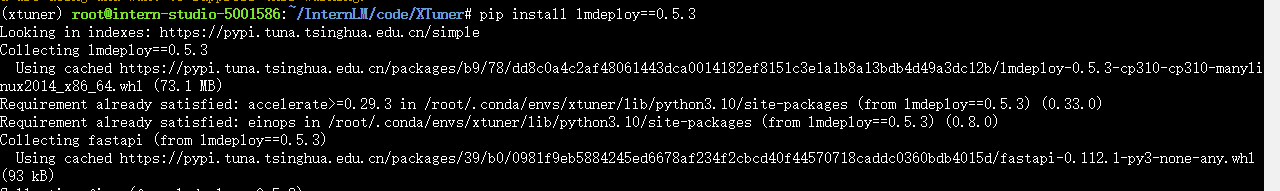


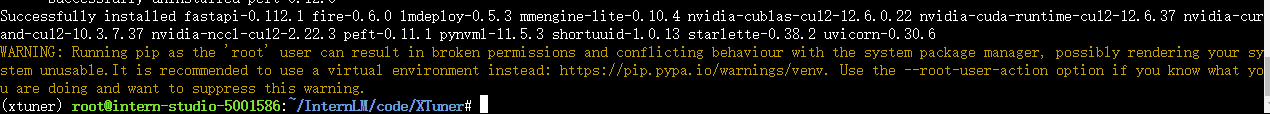




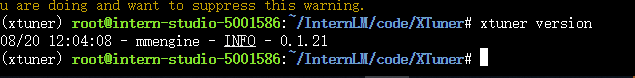


安装LMDeploy

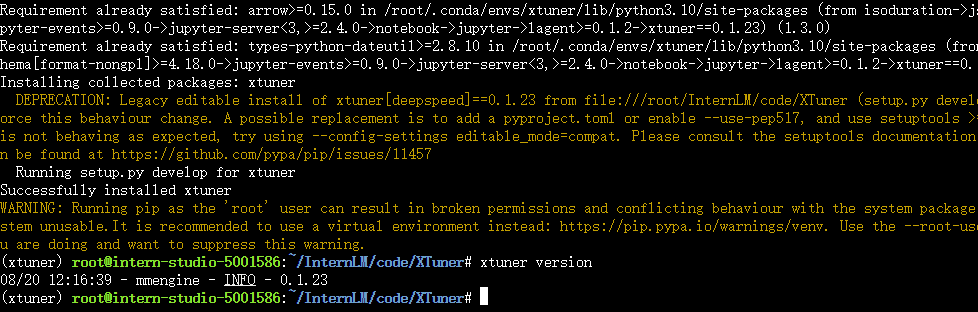




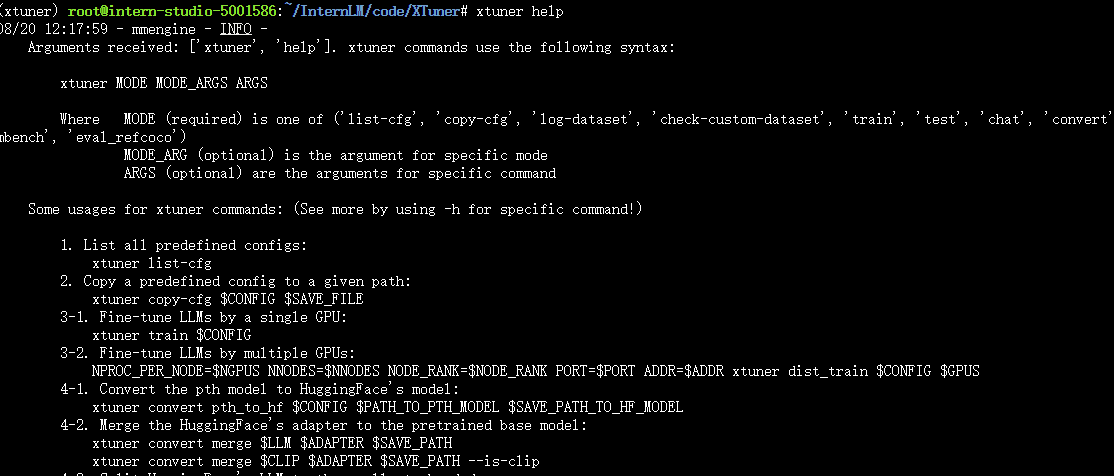
xtuner version



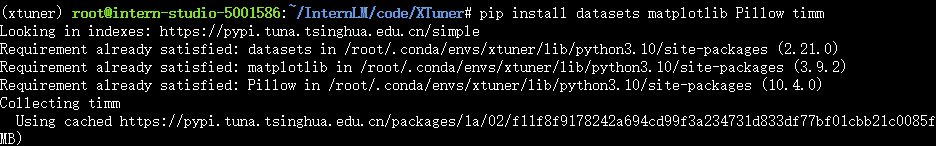
版本低了，要重装。

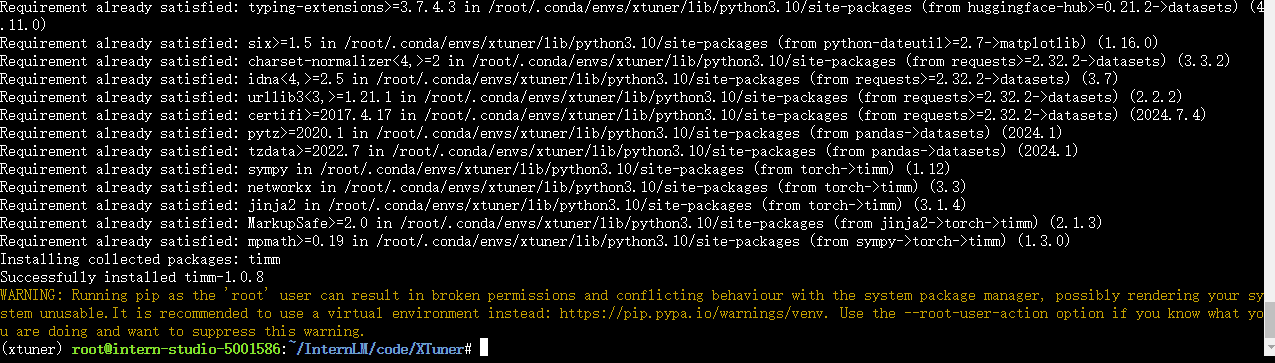


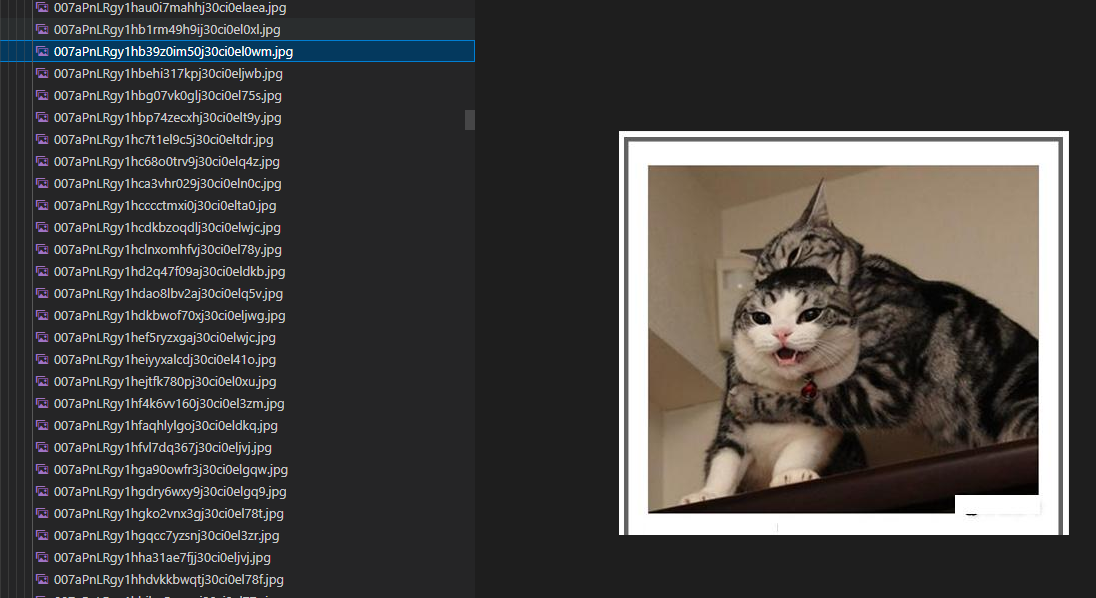
重装后版本就一致了。



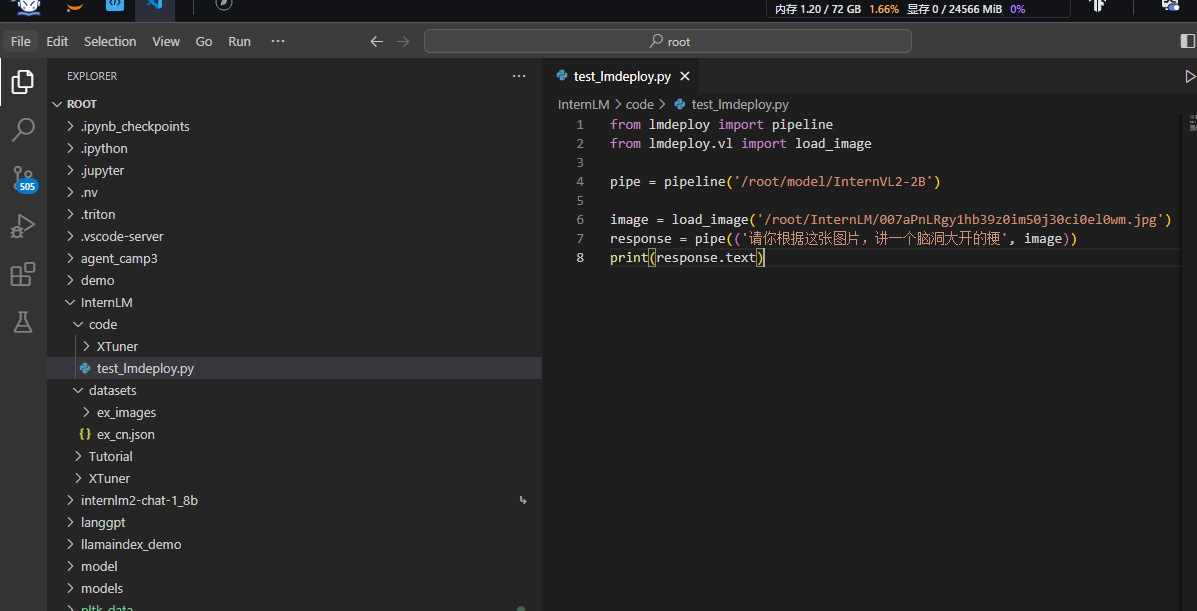
**准备微调数据集**

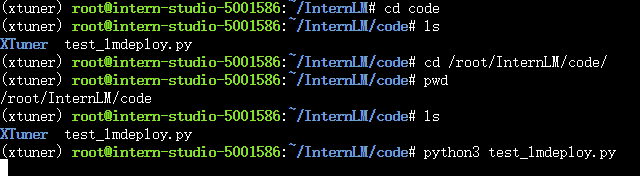


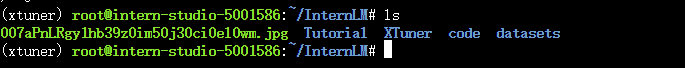


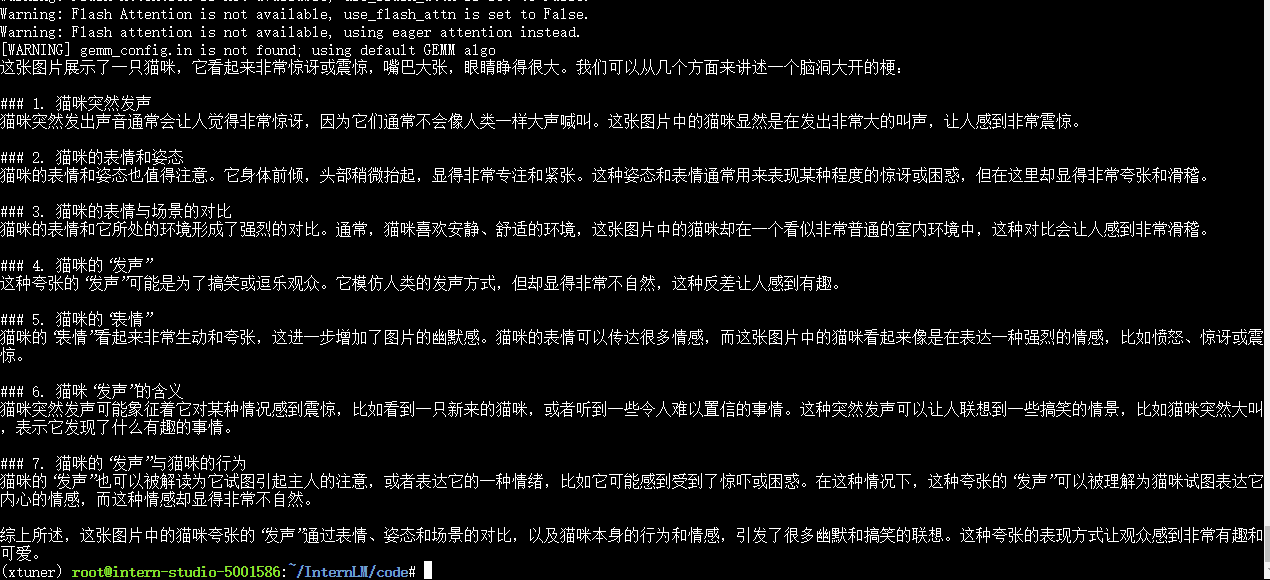


**InternVL 推理部署攻略**







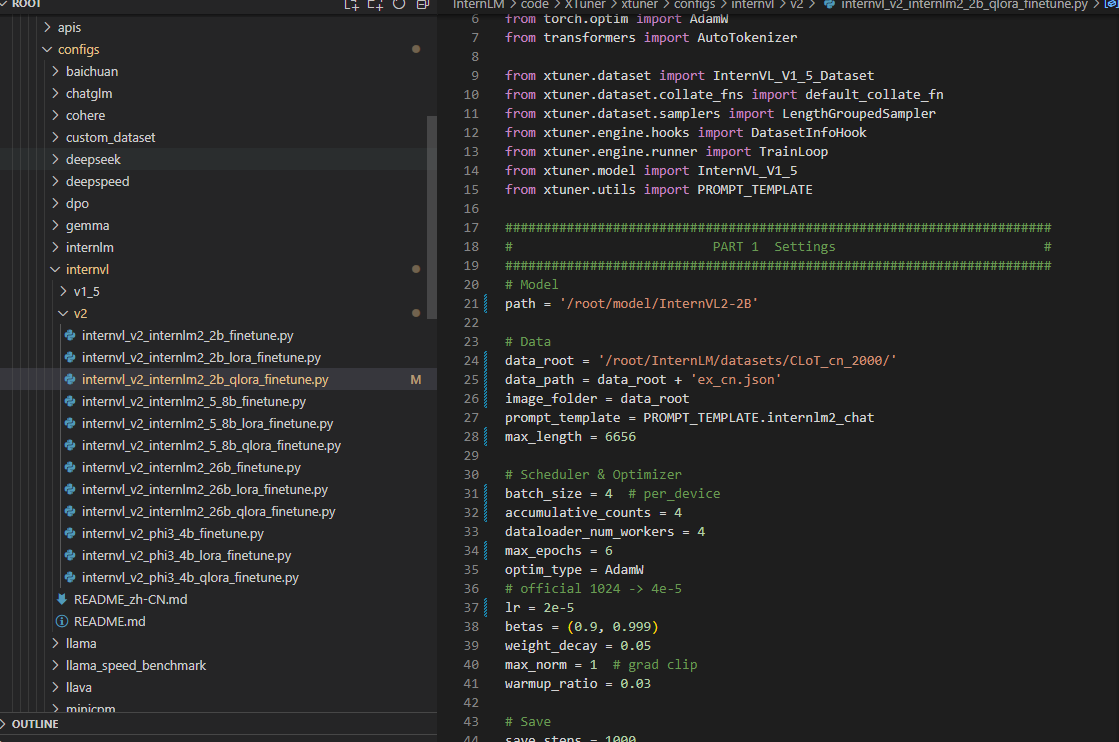


**InternVL 微调攻略**

**准备数据集**

数据集就是刚才复制进InternLM/datasets的数据。

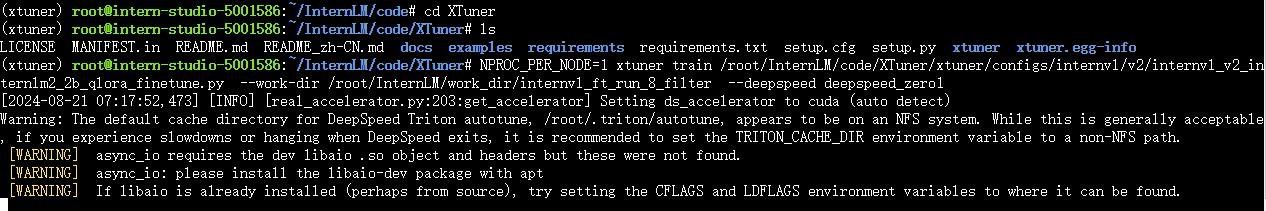
**配置微调参数**

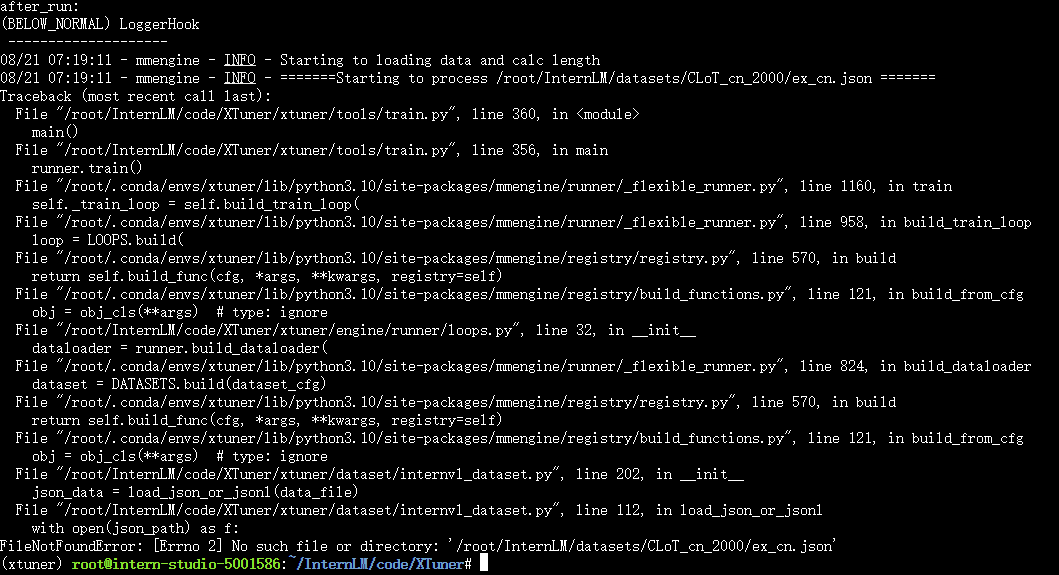


**开始训练**

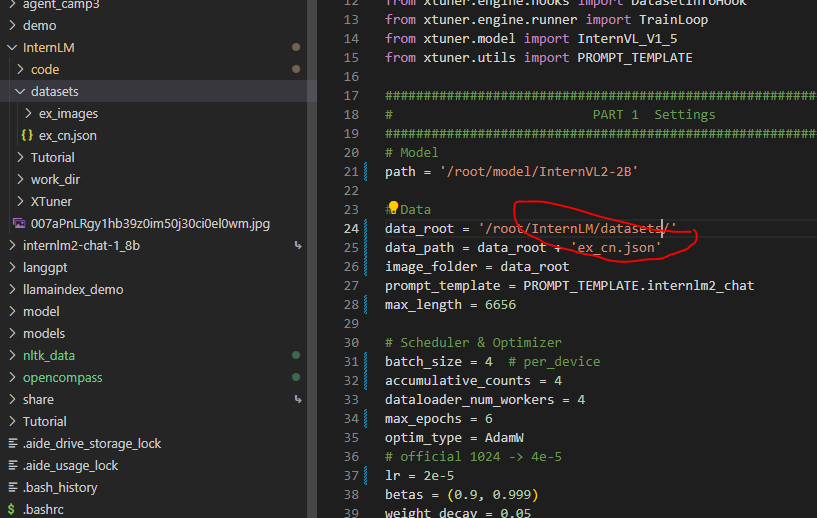
还是换成全卡来训练了

conda activate xtuner





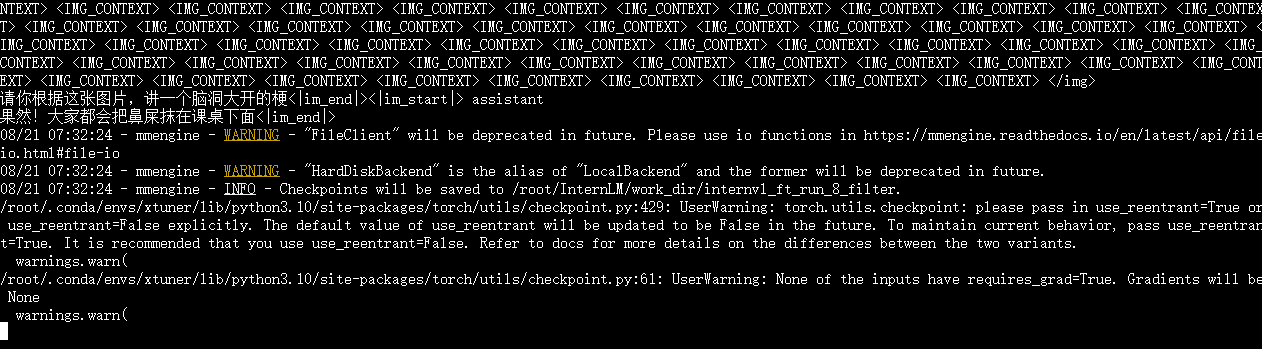
出错了，怎么办？修改配置文件

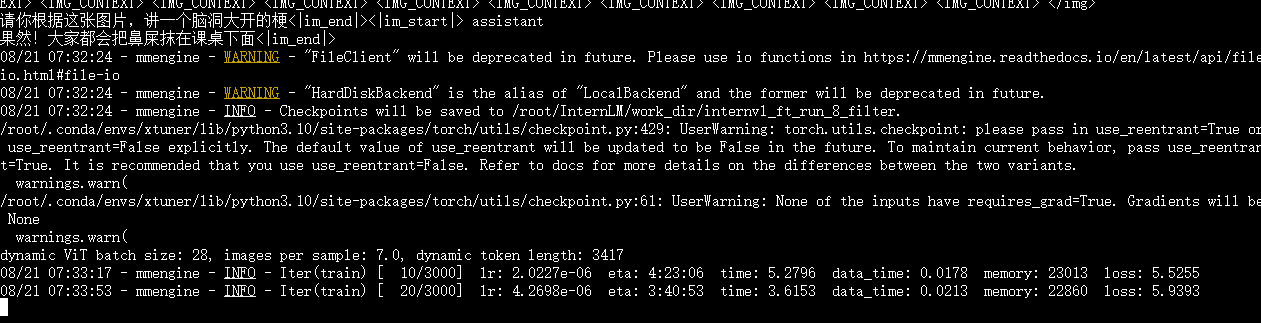


设置正确的路径。

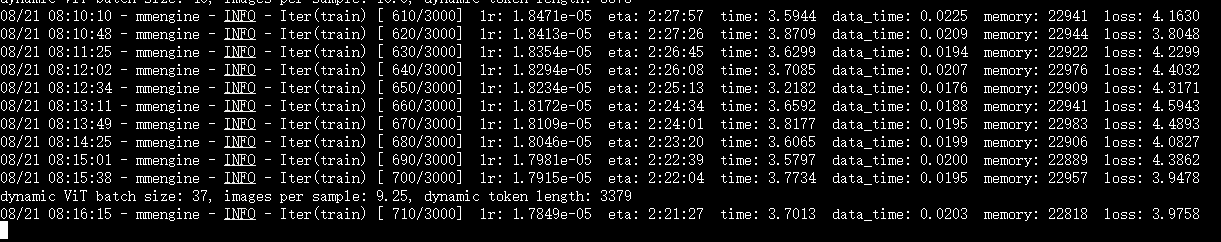
再启动微调

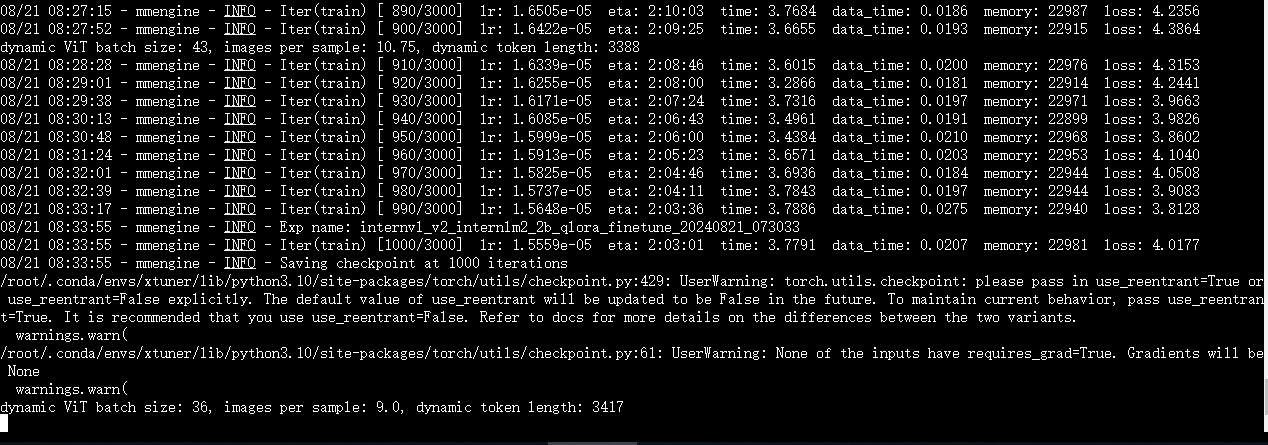
NPROC\_PER\_NODE=1 xtuner train /root/InternLM/code/XTuner/xtuner/configs/internvl/v2/internvl\_v2\_internlm2\_2b\_qlora\_finetune.py --work-dir /root/InternLM/work\_dir/internvl\_ft\_run\_8\_filter --deepspeed deepspeed\_zero1



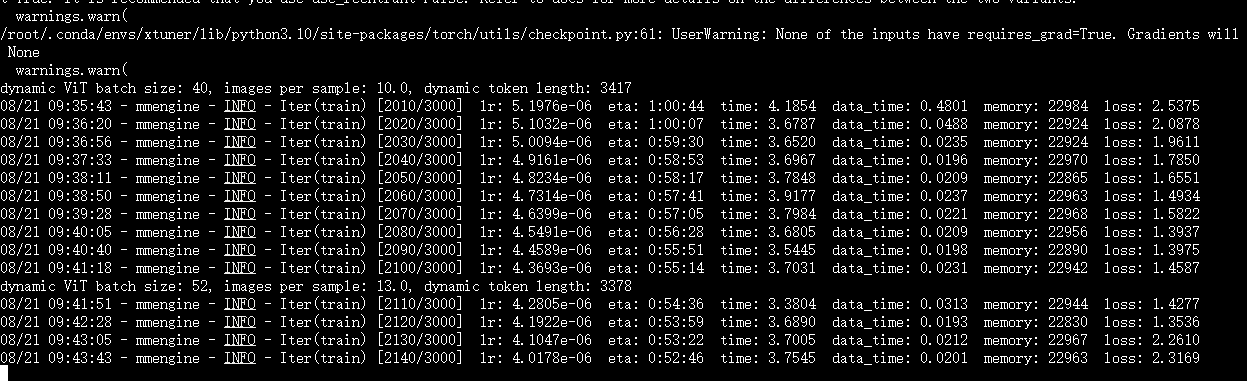


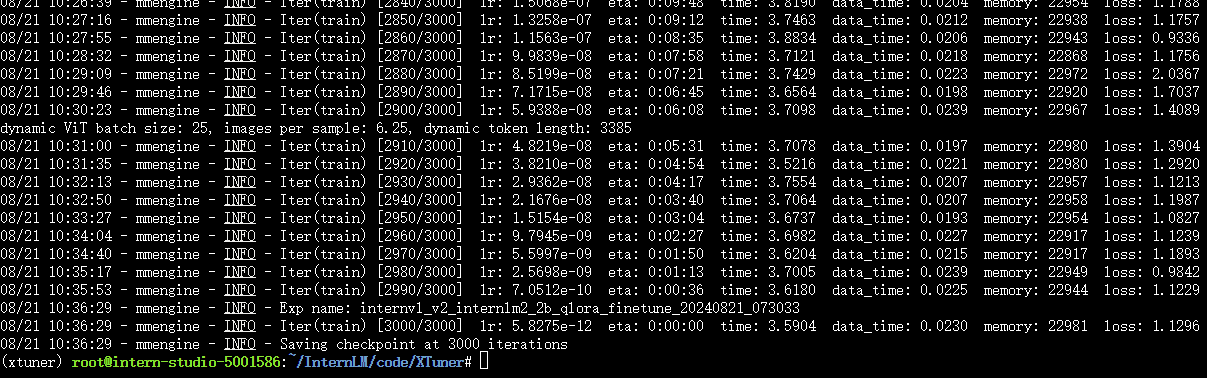






在一千次迭代时，存储检查点。

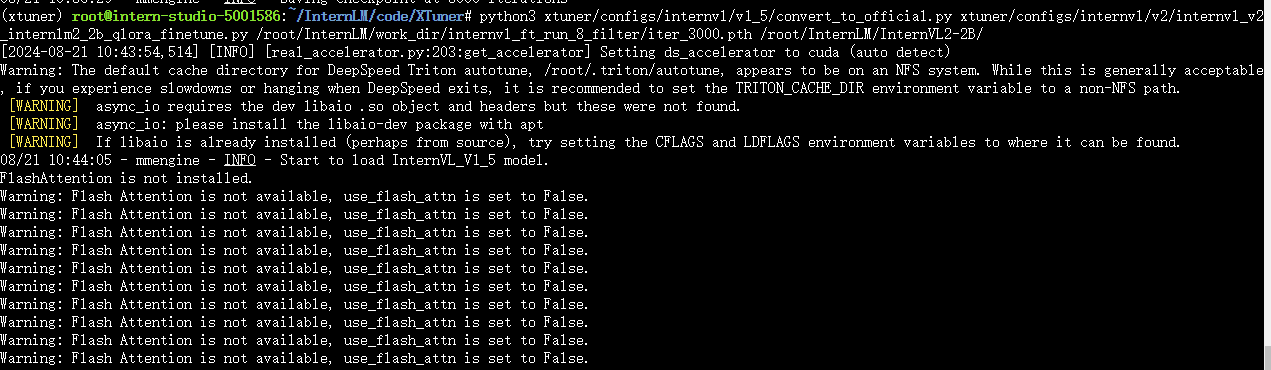


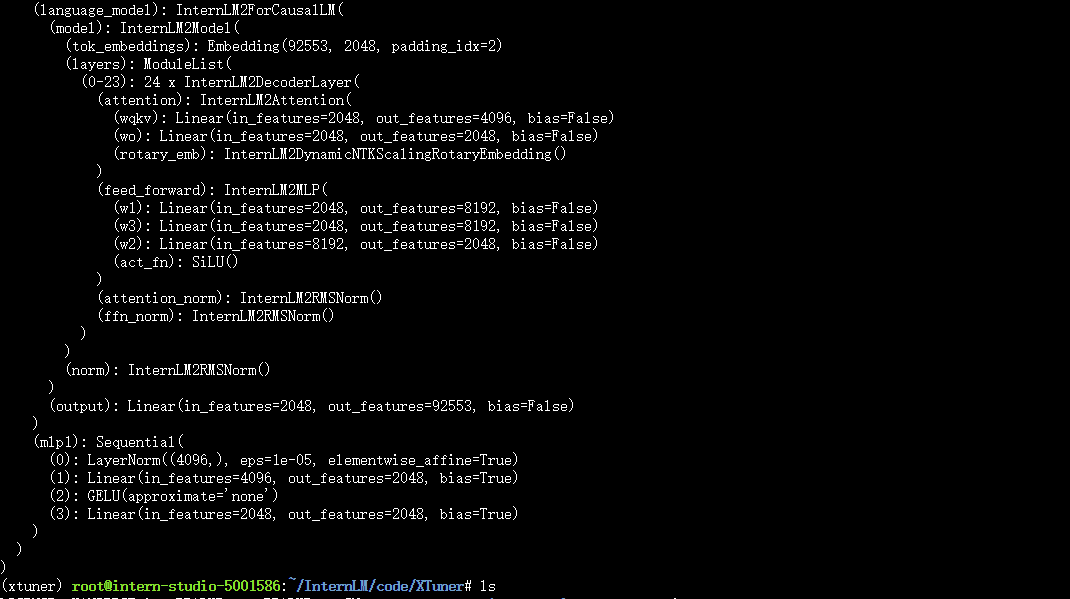


3000次迭代结束了。

**合并权重&&模型转换**

python3 xtuner/configs/internvl/v1\_5/convert\_to\_official.py xtuner/configs/internvl/v2/internvl\_v2\_internlm2\_2b\_qlora\_finetune.py /root/InternLM/work\_dir/internvl\_ft\_run\_8\_filter/iter\_3000.pth /root/InternLM/InternVL2-2B/

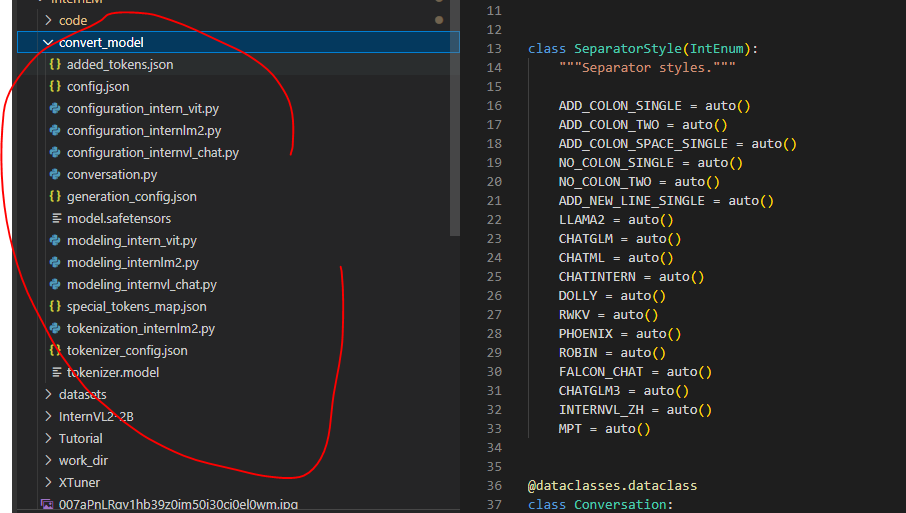




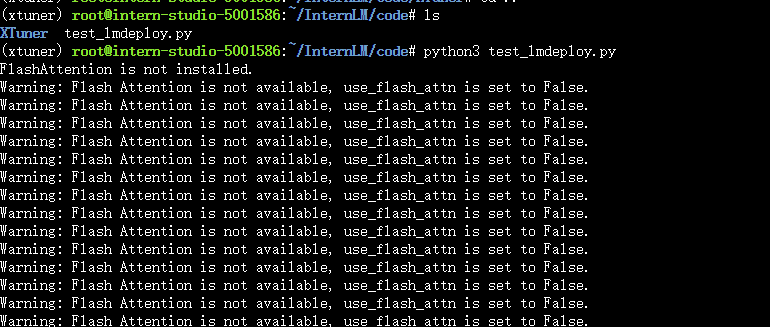
好像又出情况了？

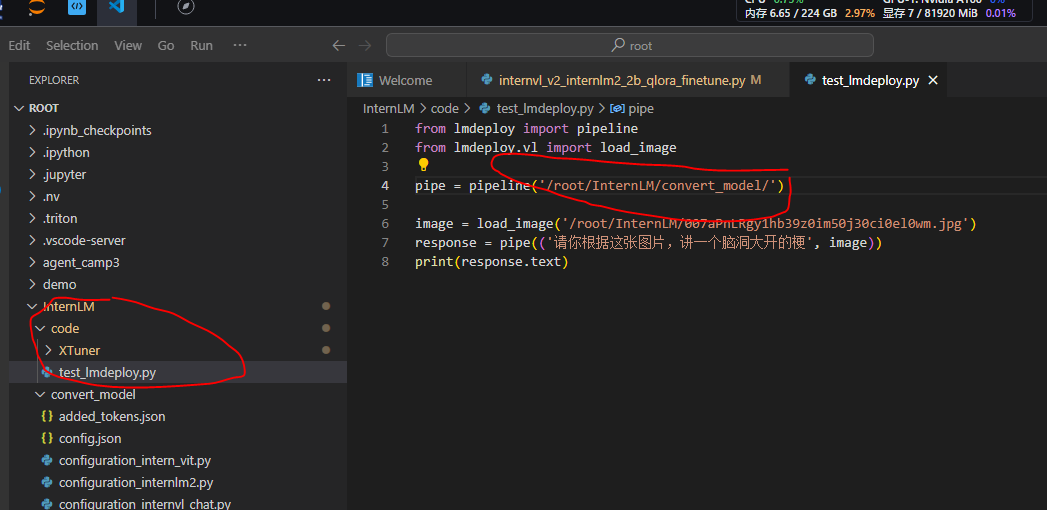
没能合并。

改变存储路径又试了一次，有似乎时覆盖了原模型，虽然快，也试真合并完了。



**微调后效果对比**

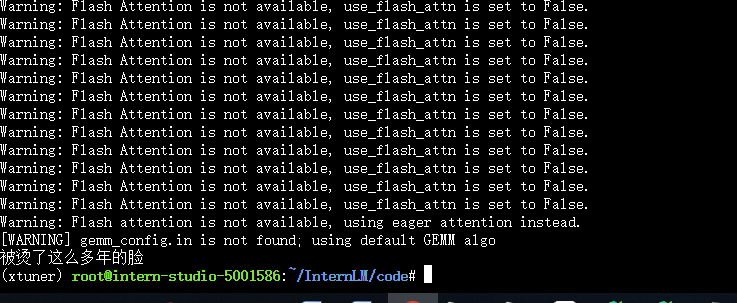






被子和床单都脱了

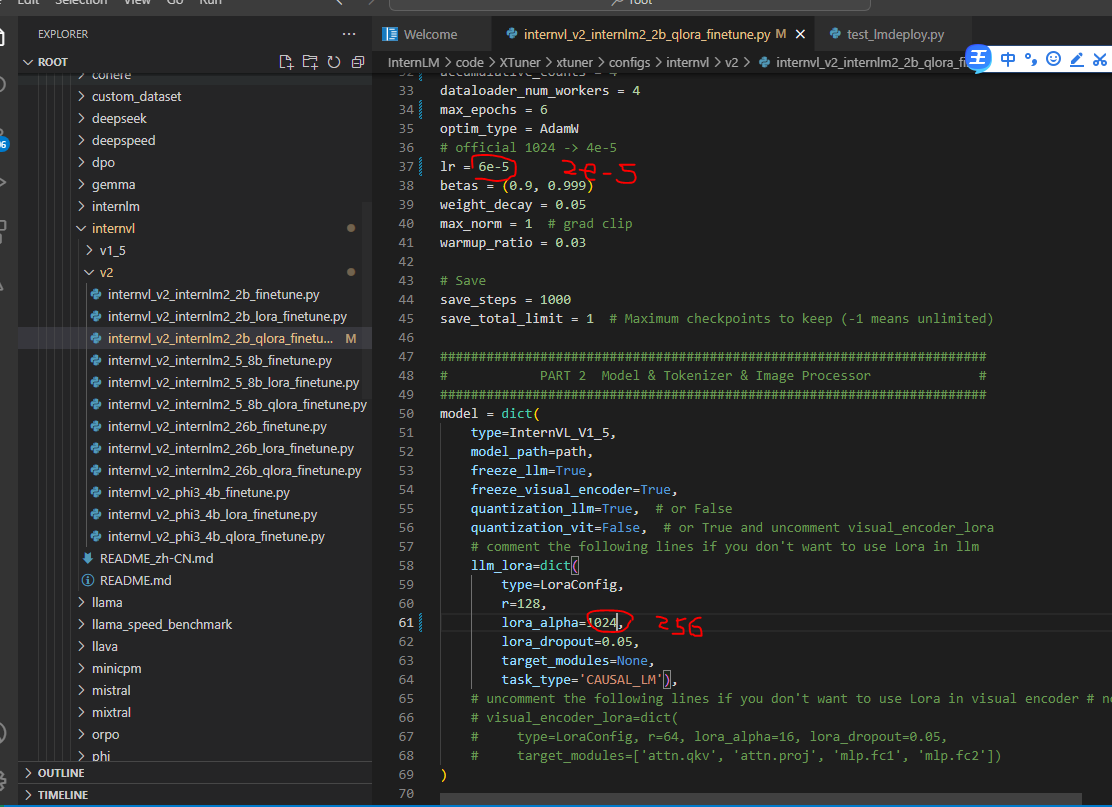
这个梗！！！



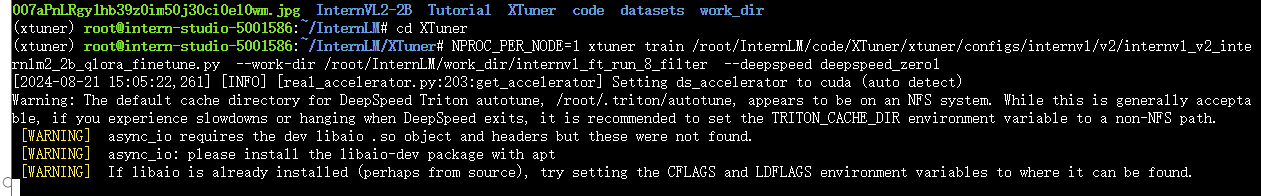
被烫了这么多年的脸

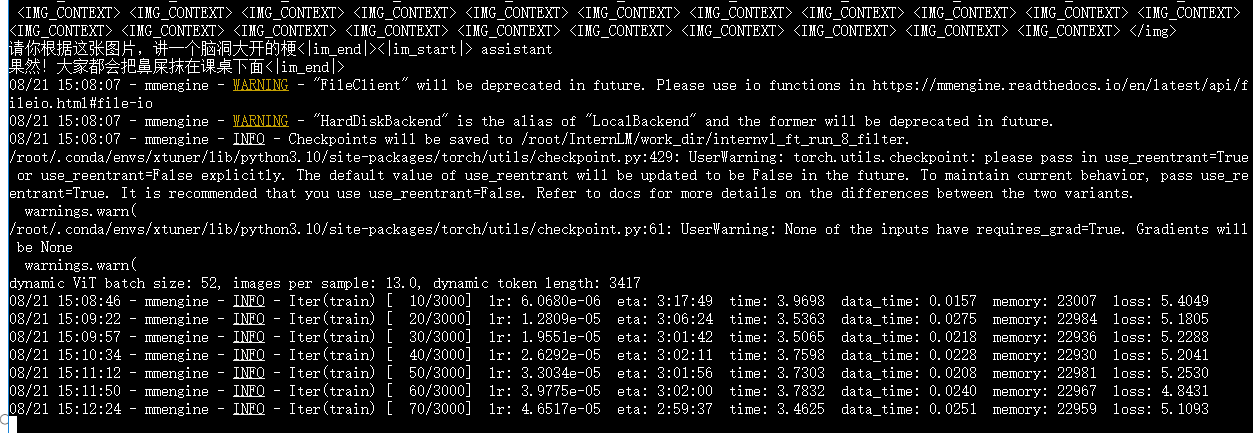
呵呵！

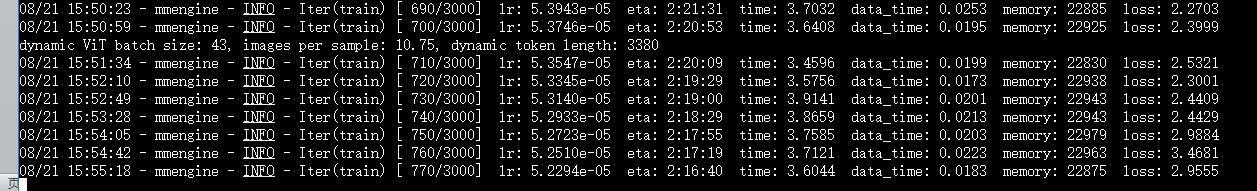
（选做）调整xtuner的config，如LoRA rank，学习率。看模型Loss会如何变化，并记录调整后效果

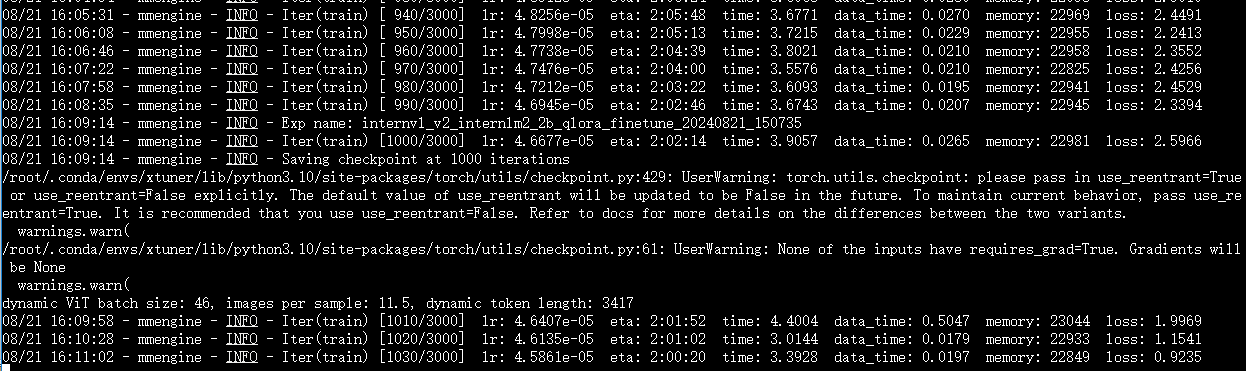


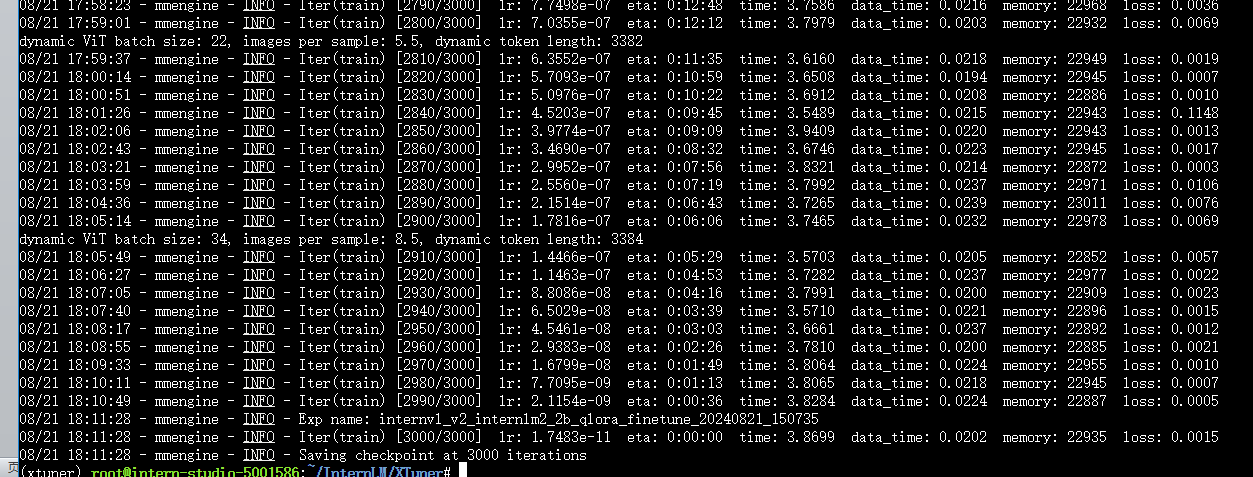
调整超级参数后，再次训练











调整了学习率等参数后，3000次迭代后，loss还试到了0.0015，也基本达到效果了。