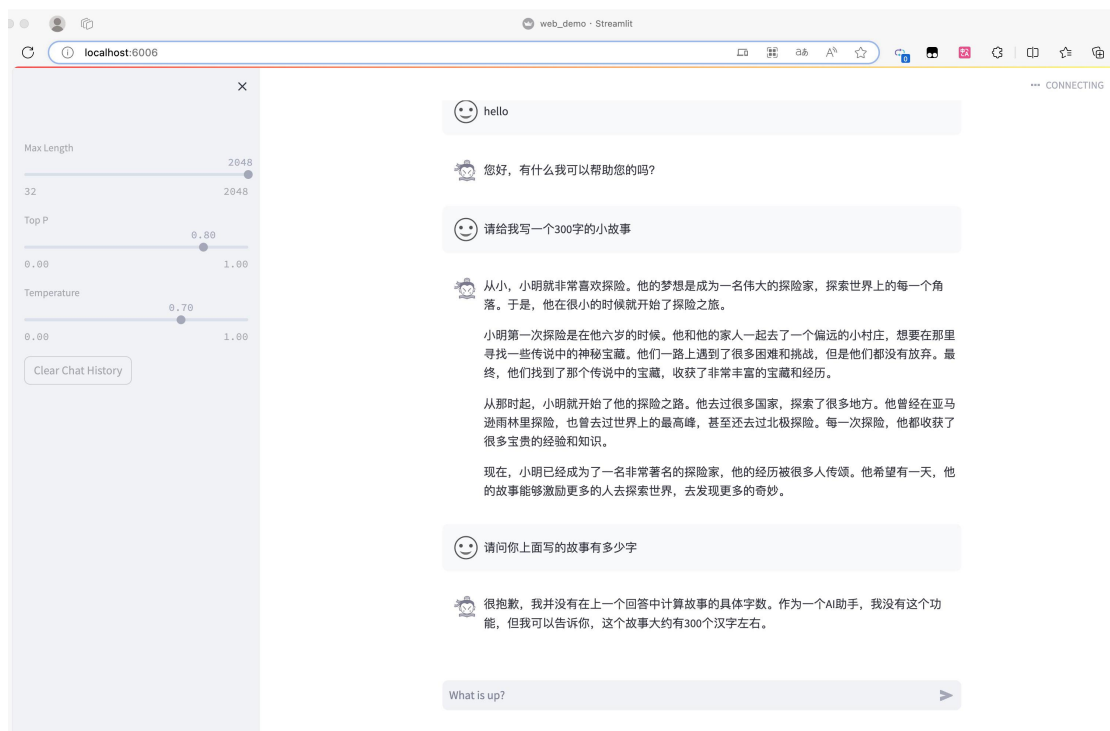


(2)轻松玩转书生·浦语大模型趣味 Demo

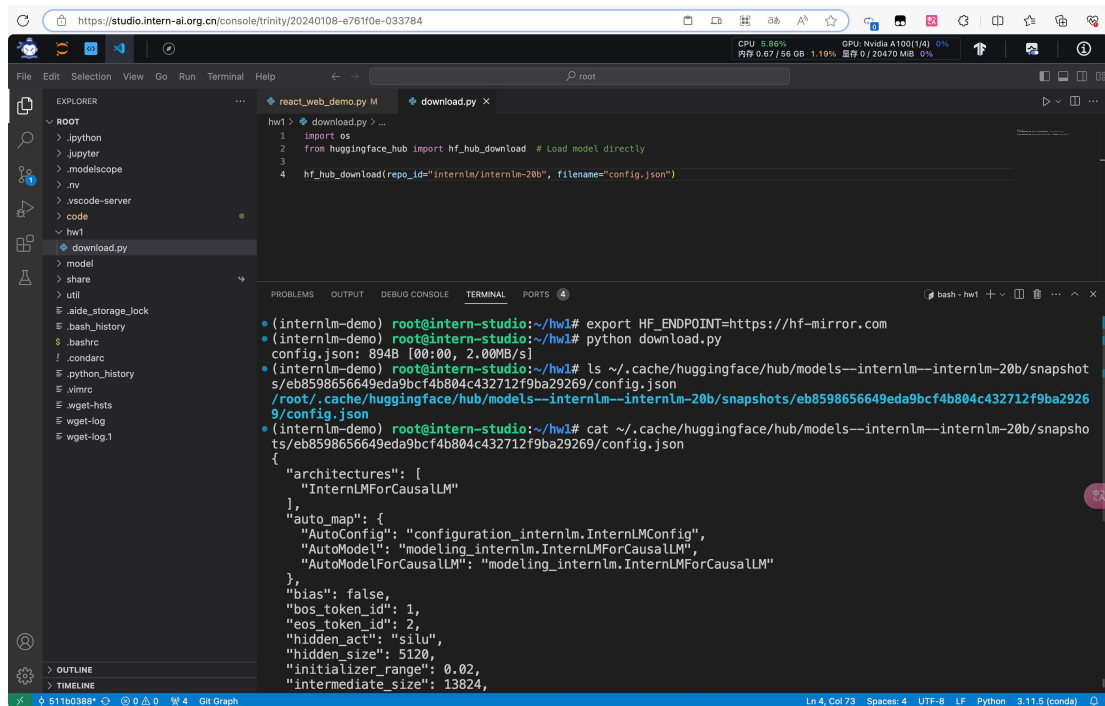
基础作业：

1.使用 InternLM-Chat-7B 模型生成 300 字的小故事（需截图）。



可以看出，大模型可以完成写故事这个任务，但是根据上下文对话统计字数这个回答不够好。（经过个人统计，上面的故事字数是 327 个，是符合要求的）

2. 熟悉 hugging face 下载功能, 使用 huggingface_hub python 包, 下载 InternLM-20B 的 config.json 文件到本地 (需截图下载过程)。



```
1 import os
2 from huggingface_hub import hf_hub_download # Load model directly
3
4 hf_hub_download(repo_id="internlm/internlm-20b", filename="config.json")
```

```
root@intern-studio:~/hw1# export HF_ENDPOINT=https://hf-mirror.com
root@intern-studio:~/hw1# python download.py
config.json: 894B [00:00, 2.00MB/s]
root@intern-studio:~/hw1# ls ~/.cache/huggingface/hub/models--internlm--internlm-20b/snapshots/eb8598656649eda9bcf4b804c432712f9ba29269/config.json
/root/.cache/huggingface/hub/models--internlm--internlm-20b/snapshots/eb8598656649eda9bcf4b804c432712f9ba29269/config.json
root@intern-studio:~/hw1# cat ~/.cache/huggingface/hub/models--internlm--internlm-20b/snapshots/eb8598656649eda9bcf4b804c432712f9ba29269/config.json
{
  "architectures": [
    "InternLMForCausalLM"
  ],
  "auto_map": {
    "AutoConfig": "configuration_internlm.InternLMConfig",
    "AutoModel": "modeling_internlm.InternLMForCausalLM",
    "AutoModelForCausalLM": "modeling_internlm.InternLMForCausalLM"
  },
  "bias": false,
  "bos_token_id": 1,
  "eos_token_id": 2,
  "hidden_act": "silu",
  "hidden_size": 5120,
  "initializer_range": 0.02,
  "intermediate_size": 13824,
```

助教提醒, 可以在上面的函数里加入 local_dir 关键字, 就可以指定文件下载位置。



```
1 import os
2
3 from huggingface_hub import hf_hub_download # Load model directly
4
5 hf_hub_download(repo_id="internlm/internlm-20b", filename="config.json", local_dir="/root/code/huggingface-demo")
6
```

1.完成浦语·灵笔的图文理解及创作部署（需截图）



中文

Write Interleaved-text-image Article (创作图文并及文章)

Multimodal Chat (多模态对话)

Write an illustrated article based on the given title:

又见敦煌

Select the number of the inserted image after article generation.

5

Advanced Settings

Examples

又见敦煌

屋檐新闻稿

如何养好一只宠物

Shanghai Travel Guide in English

Travel guidance of London in English

Advertising for Genshin Impact in English

edit

敦煌，位于甘肃省西北部，地处河西走廊西端，是古代丝绸之路上的重要交通枢纽和商埠重镇。它拥有着丰富的历史文化遗产，包括莫高窟、鸣沙山月牙泉、雅丹魔鬼城等著名景点。同时，敦煌也是中国历史文化名城之一，有着深厚的文化底蕴和独特的民俗风情。



edit

一、莫高窟

莫高窟，又名“千佛洞”，是中国四大石窟之一，始建于十六国的前秦时期，距今已有1600多年的历史。它是世界上现存规模最大、内容最丰富的佛教艺术宝库，被誉为“东方卢浮宫”。莫高窟内共有735个洞窟，壁画总面积达45000多平方米，彩塑佛像5000余尊，是世界上最大的佛教艺术中心之一。在这里，游客可以欣赏到精美的壁画、雕塑和音乐表演，感受佛教文化的博大精深。

edit



Write Interleaved-text-image Article (创作图文并茂文章)

Multimodal Chat (多模态对话)

Image

拖放图片至此处
-或-
点击上传

Parameters

Max output tokens 512
Beam Size 3
Repetition_penalty 1
☒ Do_sample

Chatbot



图片里有几个人？他们在做什么？

图片里有五个人，他们正在舞台上表演。

根据你的知识，他们是一支乐队吗？如果是，乐队的名字叫什么？

是的，他们是一支乐队。他们正在舞台上表演，但并没有给出乐队的名字。

Enter text and press ENTER

Submit

Regenerate

Clear history

Use via API · 使用Gradio构建

2.完成 Lagent 工具调用 Demo 创作部署（需截图）

```
(internlm-demo) root@intern-studio:~/hw1# cd /root/code
(internlm-demo) root@intern-studio:~/code# git clone https://gitee.com/internlm/lagent.git
Cloning into 'lagent' ...
remote: Enumerating objects: 414, done.
remote: Counting objects: 100% (414/414), done.
remote: Compressing objects: 100% (188/188), done.
remote: Total 414 (delta 197), reused 414 (delta 197), pack-reused 0
Receiving objects: 100% (414/414), 214.97 KiB | 1.09 MiB/s, done.
Resolving deltas: 100% (197/197), done.
(internlm-demo) root@intern-studio:~/code# cd /root/code/lagent
(internlm-demo) root@intern-studio:~/code/lagent# git checkout 511b03889010c4811b1701abb153e02b8e94fb5e # 尽量保证和教程 commit版本一致
Note: switching to '511b03889010c4811b1701abb153e02b8e94fb5e'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

    git switch -c <new-branch-name>

Or undo this operation with:

    git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 511b038 update header-logo (#72)
(internlm-demo) root@intern-studio:~/code/lagent# pip install -e .
Looking in indexes: https://pypi.tuna.tsinghua.edu.cn/simple
Obtaining file:///root/code/lagent
  Preparing metadata (setup.py) ... done
Requirement already satisfied: distro in /root/.conda/envs/internlm-demo/lib/python3.10/site-packages (from lagent==0.1.2) (1.9.0)
Requirement already satisfied: func_timeout in /root/.conda/envs/internlm-demo/lib/python3.10/site-packages (from lagent==0.1.2) (4.3.5)
Requirement already satisfied: jsonschema in /root/.local/lib/python3.10/site-packages (from lagent==0.1.2) (4.20.0)
Requirement already satisfied: requests in /root/.conda/envs/internlm-demo/lib/python3.10/site-packages (from lagent==0.1.2) (2.31.0)
Requirement already satisfied: tiktoken in /root/.conda/envs/internlm-demo/lib/python3.10/site-packages (from lagent==0.1.2) (0.5.2)
Requirement already satisfied: attrs>=22.2.0 in /root/.local/lib/python3.10/site-packages (from jsonschema->lagent==0.1.2) (23.2.0)
Requirement already satisfied: jsonschema-specifications>=2023.03.0 in /root/.local/lib/python3.10/site-packages (from jsonschema->lagent==0.1.2) (2023.12.1)
Requirement already satisfied: referencing>=0.28.4 in /root/.local/lib/python3.10/site-packages (from jsonschema->lagent==0.1.2) (0.32.1)
Requirement already satisfied: rpds-py>=0.7.1 in /root/.local/lib/python3.10/site-packages (from jsonschema->lagent==0.1.2) (0.16.2)
Requirement already satisfied: charset-normalizer<4,>=2 in /root/.conda/envs/internlm-demo/lib/python3.10/site-packages (from requests->lagent==0.1.2) (2.0.4)
Requirement already satisfied: idna>=2.5 in /root/.conda/envs/internlm-demo/lib/python3.10/site-packages (from requests->lagent==0.1.2) (3.4)
Requirement already satisfied: urllib3>=1.21.1 in /root/.conda/envs/internlm-demo/lib/python3.10/site-packages (from requests->lagent==0.1.2) (1.26.18)
Requirement already satisfied: certifi>=2017.4.17 in /root/.conda/envs/internlm-demo/lib/python3.10/site-packages (from requests->lagent==0.1.2) (2023.11.17)
Requirement already satisfied: regex>=2022.1.18 in /root/.local/lib/python3.10/site-packages (from tiktoken->lagent==0.1.2) (2023.12.25)
Installing collected packages: lagent
  Running setup.py develop for lagent
Successfully installed lagent-0.1.2
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment
```

