

作业



Tip

结营必做基础作业；优秀学员或进入对应 SIG 需完成进阶作业。

基础作业

1. 完成 Lagent Web Demo 使用，并在作业中上传截图。文档可见 [Lagent Web Demo](#)
2. 完成 AgentLego 直接使用部分，并在作业中上传截图。文档可见 [直接使用 AgentLego](#)。

进阶作业

1. 完成 AgentLego WebUI 使用，并在作业中上传截图。文档可见 [AgentLego WebUI](#)。
2. 使用 Lagent 或 AgentLego 实现自定义工具并完成调用，并在作业中上传截图。文档可见：
 - [用 Lagent 自定义工具](#)
 - [用 AgentLego 自定义工具](#)

大作业选题

算法方向

1. 在 Lagent 或 AgentLego 中实现 RAG 工具，实现智能体与知识库的交互。
2. 基于 Lagent 或 AgentLego 实现工具的多轮调用，完成复杂任务。如：智能体调用翻译工具，再调用搜索工具，最后调用生成工具，完成一个完整的任务。
3. ...

应用方向

1. 基于 Lagent 或 AgentLego 实现一个客服智能体，帮助用户解决问题。
2. 基于 Lagent 或 AgentLego 实现一个智能体，实现艺术创作，如生成图片、视频、音乐等。
3. ...

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CPU 10.02% GPU-1: 30% Nvidia A100 0% 内存 0.48 / 72 GB 0.66% 显存 0 / 24566 MiB 0%
Collecting ipython>=7.23.1 (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/8a/15/ea245239487bbd87203fe010ea48c7539e42b1fde0592313241a3fba3a/ipython-8.23.0-py3-none-any.whl (814 kB)
Collecting jupyter-client>=6.1.12 (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/75/6d/d7b55b9c1ac802ab066b3e5015e90faab1fffbdbd67a2af498ffc6cc81c97/jupyter_client-8.6.1-py3-none-any.whl (105 kB)
Collecting jupyter-core!=5.0.*,>=4.12 (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/c9/fb/108ecd1fe961941959ad0ee4e12ee7b8b1477247f30b1dfd83ceaf017f0/jupyter_core-5.7.2-py3-none-any.whl (28 kB)
Collecting matplotlib-inline>=0.1 (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/8f/8e/9ad090d3553c280a8060fbfb6e24dc1c0c29704ee7dlc372f0c174aa59285/matplotlib_inline-0.1.7-py3-none-any.whl (9.9 kB)
Collecting nest-asyncio (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/a0/c4/c2971a3ba4c6103a3d10c4b0f24f461ddc027f0f09763220cf35ca1401b3/nest_asyncio-1.6.0-py3-none-any.whl (5.2 kB)
Collecting packaging (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/49/df/1fceb2f8900f8639e278b056416d49134fb8d84c5942ffaa01ad34782422/packaging-24.0-py3-none-any.whl (53 kB)
Collecting psutil (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/c5/4f/0e22aaa246f96d6ac87fe5ebb9c5a693f8e8877f537a1022527c47ca43c5/psutil-5.9.8-cp36-abi3-manylinux_2_12_x86_64.manylinux2010_x86_64.manylinux2_17_x86_64.manylinux2014_x86_64.whl (288 kB)
Collecting pyzmq>=24 (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/4f/37/750abff50e6b407d214dcb347ae64d76974b4ee655d4d60fb389dc603c3/pyzmq-26.0.2-cp310-cp310-manylinux_2_28_x86_64.whl (919 kB)
Collecting tornado>=6.1 (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/9f/12/11d0a757bb67278d3380d41955ae98527d5ad18330b2edebdc8de22b569b/tornado-6.4-cp38-abi3-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux2_17_x86_64.manylinux2014_x86_64.whl (435 kB)
Collecting traitlets>=5.4.0 (from ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/00/c0/8f5d070730d7836adc9c9b6408dec68c6ced86b304a9b26a14df072a6e8c/traitlets-5.14.3-py3-none-any.whl (85 kB)
Collecting decorator (from ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/d5/50/83c593b07763e1161326b3b8c6686f0f4b0f24d5526546bee538c89837d6/decorator-5.1.1-py3-none-any.whl (9.1 kB)
Collecting jedi>=0.16 (from ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/20/9f/bc63f0f0737ad7a60800bfd472a4836661adae21f9c2535f3957b1e54ceb/jedi-0.19.1-py2.py3-none-any.whl (1.6 MB)
Collecting prompt-toolkit<3.1.0,>=3.0.41 (from ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/ee/fd/ca7bf3869e7caa7a037e23078539467b433a4e01eebd937f17180ab927766/prompt_toolkit-3.0.43-py3-none-any.whl (386 kB)
Collecting pygments>=2.4.0 (from ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/97/9c/372fef8377a6e340b1704768d20daaded98bf13282b5327beb2e2fe2c7ef/pygments-2.17.2-py3-none-any.whl (1.2 MB)
Collecting stack-data (from ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/f1/7b/celeafaf1a76852e2ec9b22edecf1daa58175c090266e9f6c64afcd81d91/stack_data-0.6.3-py3-none-any.whl (24 kB)
Collecting exceptiongroup (from ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/01/90/79fe92dd413a9cab314ef5c591b5aa9b9ba78ae4cadab75055b0ae00b33/exceptiongroup-1.2.1-py3-none-any.whl (16 kB)
Requirement already satisfied: typing-extensions in ./conda/envs/agent/lib/python3.10/site-packages (from ipython>=7.23.1->ipykernel) (4.9.0)
Collecting pexpect>4.3 (from ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/9e/c3/059298687310d527a58bb01f3b1965787ee3b40dce76752eda8b44e9a2c5/pexpect-4.9.0-py2.py3-none-any.whl (63 kB)
Collecting python-dateutil>=2.8.2 (from jupyter-client>=6.1.12->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/ec/57/56b9bcc3c9c6a792fcbaf139543cee77261f3651ca9da0c93f5c1221264b/python_dateutil-2.9.0.post0-py2.py3-none-any.whl (229 kB)
Collecting platformdirs>=2.5 (from jupyter-core!=5.0.*,>=4.12->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/b0/15/1691fa5aaddc0c4ea4901c26f6137c29d5f6673596fe960a0340e8c308e1/platformdirs-4.2.1-py3-none-any.whl (17 kB)
Collecting parso<0.9.0,>=0.8.3 (from jedi>=0.16->ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/c6/ac/dac4a63f978e4dcb3c6d3a78c4d8e0192a113d238502a1216950c41b1027/parso-0.8.4-py2.py3-none-any.whl (103 kB)
Collecting ptyprocess>=0.5 (from pexpect>4.3->ipython>=7.23.1->ipykernel)
  Downloading https://pypi.tuna.tsinghua.edu.cn/packages/22/a6/858897256d0deac81a172289110f31629f4cee19b6f01283303e18c8db3/ptyprocess-0.7.0-py2.py3-none-any.whl (13 kB)
Collecting wcwidth (from prompt-toolkit<3.1.0,>=3.0.41->ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/fd/84/fd2ba7aafacbad3c4201d395674fc6348826569da3c0937e75505ead3528/wcwidth-0.2.13-py2.py3-none-any.whl (34 kB)
Collecting six>=1.5 (from python-dateutil>=2.8.2->jupyter-client>=6.1.12->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/d9/5a/e7c31adbe875f2abbb91bd84cf2dc52d792b5a01506781dbcf25c91daf11/six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting executing>=1.2.0 (from stack-data->ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/80/03/6ea3b1b2a5ab40a7a60dc464d3daa7aa546e0a74d7a498ff551ea7905db/executing-2.0.1-py2.py3-none-any.whl (24 kB)
Collecting asttokens>=2.1.0 (from stack-data->ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/45/86/4736ac618d82a20d87d2f92ae19441ebc7ac9e7a581d7e58bbe79233b24a/asttokens-2.4.1-py2.py3-none-any.whl (27 kB)
Collecting pure-eval (from stack-data->ipython>=7.23.1->ipykernel)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/2b/27/77f9d5684e6bc929f5cfe18d6cfbe5133013c06cb2fbf5933670e60761d/pure_eval-0.2.2-py3-none-any.whl (11 kB)
Installing collected packages: wcwidth, pure-eval, ptyprocess, traitlets, tornado, six, pyzmq, pygments, psutil, prompt-toolkit, platformdirs, pexpect, parso, packaging, nest-asyncio, executing, exceptiongroup, decorator, debugpy, python-dateutil, matplotlib-inline, jupyter-core, jedi, comm, asttokens, stack-data, jupyter-client, ipython, ipykernel
Successfully installed asttokens-2.4.1 comm-0.2.2 debugpy-1.8.1 decorator-5.1.1 exceptiongroup-1.2.1 executing-2.0.1 ipykernel-6.29.4 ipython-8.23.0 jedi-0.19.1 jupyter-client-8.6.1 jupyter-core-5.7.2 matplotlib-inline-0.1.7 nest-asyncio-1.6.0 packaging-24.0 parso-0.8.4 pexpect-4.9.0 platformdirs-4.2.1 prompt-toolkit-3.0.43 psutil-5.9.8 ptyprocess-0.7.0 pure-eval-0.2.2 pygments-2.17.2 python-dateutil-2.9.0.post0 pyzmq-26.0.2 six-1.16.0 stack-data-0.6.3 tornado-6.4 traitlets-5.14.3 wcwidth-0.2.13
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 instead: https://pip.pypa.io/warnings/venv
Installed kernelspec agent in /root/.local/share/jupyter/kernels/agent
conda环境: agent安装成功!

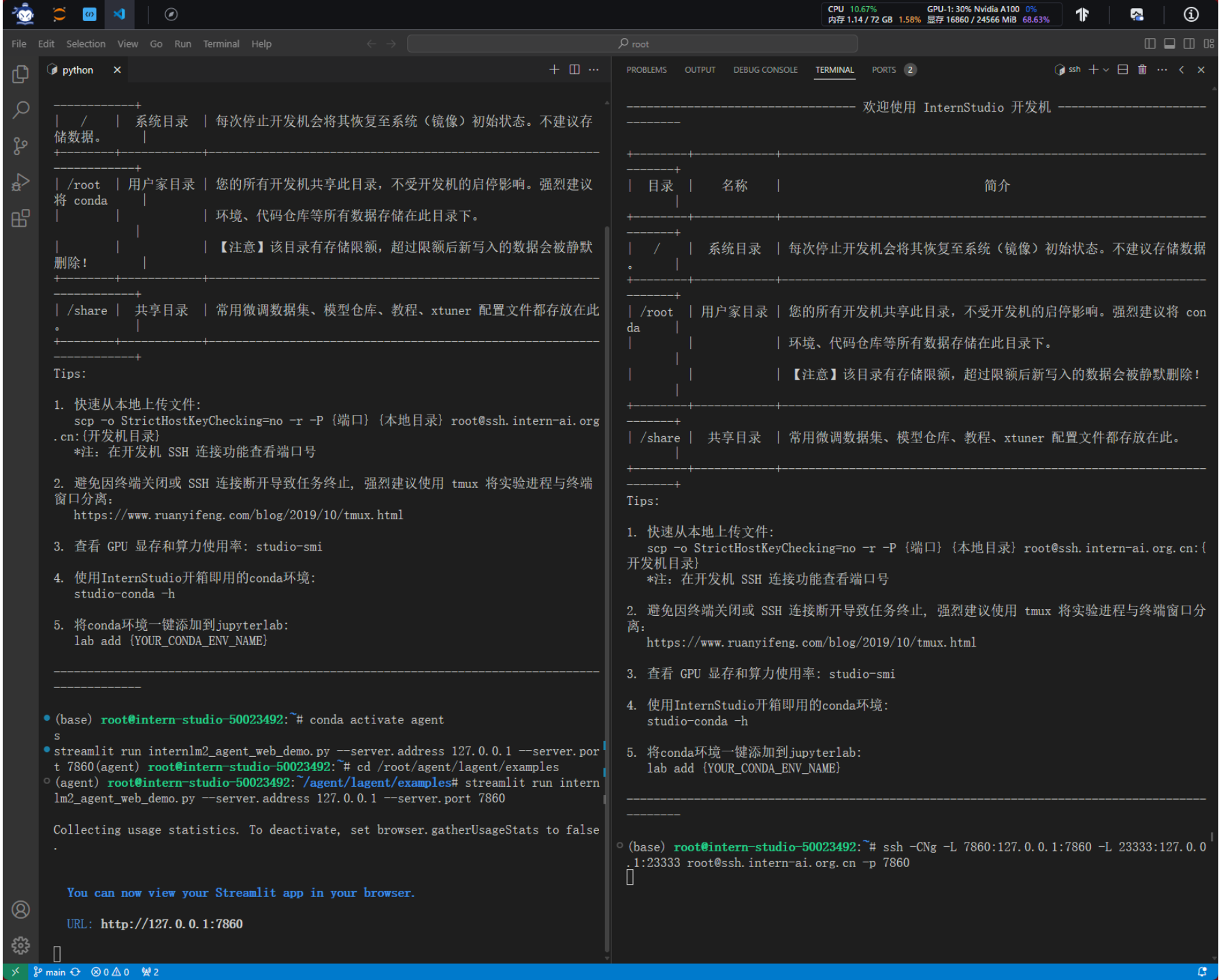
=====
ALL DONE!
=====

(base) root@intern-studio-50023492:~#
```

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CPU 13.39% GPU-1: 30% Nvidia A100 0% 内存 0.44 / 72 GB 0.61% 显存 0 / 24566 MiB 0%
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/8a/6d/44ad094874c6f1b9c654f8ed939590bdc408349f137f9b98a3a23ccec411/nvidia_curand_cul2-10.3.5.147-py3-none-manylinux2014_x86_64.whl (56.3 MB)
Requirement already satisfied: packaging>20.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from peft<=0.9.0->lmdeploy==0.3.0) (24.0)
Requirement already satisfied: psutil in /root/.conda/envs/agent/lib/python3.10/site-packages (from peft<=0.9.0->lmdeploy==0.3.0) (5.9.8)
Requirement already satisfied: pyyaml in /root/.conda/envs/agent/lib/python3.10/site-packages (from peft<=0.9.0->lmdeploy==0.3.0) (6.0.1)
Requirement already satisfied: tqdm in /root/.conda/envs/agent/lib/python3.10/site-packages (from peft<=0.9.0->lmdeploy==0.3.0) (4.66.2)
Collecting accelerate==0.21.0 (from peft<=0.9.0->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/53/fe/0251ccd9e0015c705e772da0fb2c96cdafdb7bd7dd45dc13dca7ced0eb7/accelerate-0.29.3-py3-none-any.whl (297 kB)
Collecting huggingface-hub>=0.17.0 (from peft<=0.9.0->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/05/c0/779afb8e75565c09ffa24a88b5dd7e293c92b74eb09df6435fc58ac986/huggingface_hub-0.22.2-py3-none-any.whl (388 kB)
Requirement already satisfied: annotated-types>0.4.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from pydantic>2.0.0->lmdeploy==0.3.0) (0.6.0)
Requirement already satisfied: pydantic-core==2.18.2 in /root/.conda/envs/agent/lib/python3.10/site-packages (from pydantic>2.0.0->lmdeploy==0.3.0) (2.18.2)
Requirement already satisfied: typing-extensions>=4.6.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from pydantic>2.0.0->lmdeploy==0.3.0) (4.9.0)
Requirement already satisfied: filelock in /root/.conda/envs/agent/lib/python3.10/site-packages (from torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (3.13.1)
Requirement already satisfied: sympy in /root/.conda/envs/agent/lib/python3.10/site-packages (from torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (1.12)
Requirement already satisfied: networkx in /root/.conda/envs/agent/lib/python3.10/site-packages (from torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (3.1)
Requirement already satisfied: Jinja2 in /root/.conda/envs/agent/lib/python3.10/site-packages (from torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (3.1.3)
Collecting fsspec (from torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/93/6d/66dd48b03460768f523da62a57a7e14e5e95df339d79e996ce3cecdac2db/fsspec-2024.3.1-py3-none-any.whl (171 kB)
Requirement already satisfied: regex!=2019.12.17 in /root/.conda/envs/agent/lib/python3.10/site-packages (from transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2024.4.16)
Requirement already satisfied: requests in /root/.conda/envs/agent/lib/python3.10/site-packages (from transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2.31.0)
Collecting tokenizers<0.19,>=0.14 (from transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/1c/5d/cf5e122c4ef1a29f165b2a69dc33d1ff30bce303343d58a54775ddb5d51/tokenizers-0.15.2-cp310-cp310-manylinux_2_17_x86_64_manylinux2014_x86_64.whl (3.6 MB)
Collecting starlette<0.38.0,>=0.37.2 (from fastapi->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/fd/18/31fa32ed6c68ba66220204ef0be798c349d0a20c1901f9d4a794e08c76d3/starlette-0.37.2-py3-none-any.whl (71 kB)
Requirement already satisfied: six in /root/.conda/envs/agent/lib/python3.10/site-packages (from fire->lmdeploy==0.3.0) (1.16.0)
Collecting termcolor (from fire->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/d9/5f/8c716e47b3a50cb7c146f45881e11d9414def768b7cd9c5e6650ec2a80a/termcolor-2.4.0-py3-none-any.whl (7.7 kB)
Requirement already satisfied: addict in /root/.conda/envs/agent/lib/python3.10/site-packages (from mmengine-lite->lmdeploy==0.3.0) (2.4.0)
Requirement already satisfied: rich in /root/.conda/envs/agent/lib/python3.10/site-packages (from mmengine-lite->lmdeploy==0.3.0) (13.7.1)
Collecting yapf (from mmengine-lite->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/66/c9/d4b03b2490107f13ebd68fe9496dd4ae41a7de6275ead56d0d4621b11ffd/yapf-0.40.2-py3-none-any.whl (254 kB)
Requirement already satisfied: click>=7.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from uvicorn->lmdeploy==0.3.0) (8.1.7)
Requirement already satisfied: h11>=0.8 in /root/.conda/envs/agent/lib/python3.10/site-packages (from uvicorn->lmdeploy==0.3.0) (0.14.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /root/.conda/envs/agent/lib/python3.10/site-packages (from requests->transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in /root/.conda/envs/agent/lib/python3.10/site-packages (from requests->transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from requests->transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2.1.0)
Requirement already satisfied: certifi>=2017.4.17 in /root/.conda/envs/agent/lib/python3.10/site-packages (from requests->transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2024.2.2)
Requirement already satisfied: anyio<5,>=3.4.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from starlette<0.38.0,>=0.37.2->fastapi->lmdeploy==0.3.0) (4.3.0)
Requirement already satisfied: MarkupSafe>=2.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from Jinja2->torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (2.1.3)
Requirement already satisfied: markdown-it-py>=2.2.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from rich->mmengine-lite->lmdeploy==0.3.0) (3.0.0)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from rich->mmengine-lite->lmdeploy==0.3.0) (2.17.2)
Requirement already satisfied: mpmath>=0.19 in /root/.conda/envs/agent/lib/python3.10/site-packages (from sympy->torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (1.3.0)
Collecting importlib-metadata>=6.6.0 (from yapf->mmengine-lite->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/2d/0a/679461c511447ffaf176567d5c496d1de27cbe34a87df6677d7171b2fbd4/importlib_metadata-7.1.0-py3-none-any.whl (24 kB)
Requirement already satisfied: platformdirs>=3.5.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from yapf->mmengine-lite->lmdeploy==0.3.0) (4.2.1)
Requirement already satisfied: tomli>=2.0.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from yapf->mmengine-lite->lmdeploy==0.3.0) (2.0.1)
Requirement already satisfied: sniffio>=1.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from anyio<5,>=3.4.0->starlette<0.38.0,>=0.37.2->fastapi->lmdeploy==0.3.0) (1.3.1)
Requirement already satisfied: exceptiongroup>=1.0.2 in /root/.conda/envs/agent/lib/python3.10/site-packages (from anyio<5,>=3.4.0->starlette<0.38.0,>=0.37.2->fastapi->lmdeploy==0.3.0) (1.2.1)
Collecting zipp>=0.5 (from importlib-metadata>=6.6.0->yapf->mmengine-lite->lmdeploy==0.3.0)
Using cached https://pypi.tuna.tsinghua.edu.cn/packages/c2/0a/ba9d0ee9536d3ef73a3448e931776e65b36f128d344e175bc32b092a48bf/zipp-3.18.1-py3-none-any.whl (8.2 kB)
Requirement already satisfied: mdurl<=0.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from markdown-it-py>=2.2.0->rich->mmengine-lite->lmdeploy==0.3.0) (0.1.2)
Installing collected packages: sentencepiece, zipp, uvicorn, termcolor, shortuuid, safetensors, pynvml, nvidia-nccl-cul2, nvidia-cuda-runtime-cul2, nvidia-cublas-cul2, fsspec, starlette, importlib-metadata, huggingface-hub, fire, yapf, tokenizers, fastapi, accelerate, transformers, mmengine-lite, peft, lmdeploy
Successfully installed accelerate-0.29.3 fastapi-0.110.2 fire-0.6.0 fsspec-2024.3.1 huggingface-hub-0.22.2 importlib-metadata-7.1.0 lmdeploy-0.3.0 mmengine-lite-0.10.4 nvidia-cublas-cul2-12.4.5.8 nvidia-cuda-runtime-cul2-12.4.127 nvidia-curand-cul2-10.3.5.147 nvidia-nccl-cul2-2.12.5 peft-0.9.0 pynvml-11.5.0 safetensors-0.4.3 sentencepiece-0.2.0 shortuuid-1.0.13 starlette-0.37.2 termcolor-2.4.0 tokenizers-0.15.2 transformers-4.38.2 uvicorn-0.29.0 yapf-0.40.2 zipp-3.18.1
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 instead: https://pip.pypa.io/warnings/venv
(agent) root@intern-studio-50023492:~/agent# cd /root/agent
(agent) root@intern-studio-50023492:~/agent# git clone -b camp2 https://gitee.com/internlm/Tutorial.git
Cloning into 'Tutorial'...
remote: Enumerating objects: 1321, done.
remote: Counting objects: 100% (1321/1321), done.
remote: Compressing objects: 100% (628/628), done.
remote: Total 1321 (delta 663), reused 1306 (delta 648), pack-reused 0
Receiving objects: 100% (1321/1321), 61.55 MiB | 9.09 MiB/s, done.
Resolving deltas: 100% (663/663), done.
Updating files: 100% (157/157), done.
(agent) root@intern-studio-50023492:~/agent#
```

```
CPU 10.67% GPU-1: 30% Nvidia A100 0% 内存 1.14 / 72 GB 1.58% 显存 16860 / 24566 MiB 68.63%
Requirement already satisfied: networkx in /root/.conda/envs/agent/lib/python3.10/site-packages (from torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (3.1)
Requirement already satisfied: Jinja2 in /root/.conda/envs/agent/lib/python3.10/site-packages (from torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (3.1.3)
Collecting fsspec (from torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/93/6d/66d48b03460768f523da62a57a7e145e95df339d79e996ce3cecd2cd/fsspec-2024.3.1-py3-none-any.whl (171 kB)
Requirement already satisfied: regex!=2019.12.17 in /root/.conda/envs/agent/lib/python3.10/site-packages (from transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2024.4.16)
Requirement already satisfied: requests in /root/.conda/envs/agent/lib/python3.10/site-packages (from transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2.31.0)
Collecting tokenizers<0.19,>=0.14 (from transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/1c/5d/cf5e122ce4f1a29f165b2a69dc33d1ff30bce303343d58a54775ddb5d51/tokenizers-0.15.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (3.6 MB)
Collecting starlette<0.38.0,>=0.37.2 (from fastapi->lmdeploy==0.3.0)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/fd/18/31fa32ed6c68ba66220204ef0be798c349d0a20c1901f9d4a794e08c76d8/starlette-0.37.2-py3-none-any.whl (71 kB)
Requirement already satisfied: six in /root/.conda/envs/agent/lib/python3.10/site-packages (from fire->lmdeploy==0.3.0) (1.16.0)
Collecting termcolor (from fire->lmdeploy==0.3.0)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/d9/5f/8c716e47b3a50cbd7c146f45881e11d9414def768b7cd9c5e6650ec2a80a/termcolor-2.4.0-py3-none-any.whl (7.7 kB)
Requirement already satisfied: addict in /root/.conda/envs/agent/lib/python3.10/site-packages (from mmengine-lite->lmdeploy==0.3.0) (2.4.0)
Requirement already satisfied: rich in /root/.conda/envs/agent/lib/python3.10/site-packages (from mmengine-lite->lmdeploy==0.3.0) (13.7.1)
Collecting yapf (from mmengine-lite->lmdeploy==0.3.0)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/66/c9/d4b03b2490107f13ebd68fe9496d41ae41a7de6275ead56d0d4621b11ffd/yapf-0.40.2-py3-none-any.whl (254 kB)
Requirement already satisfied: click>=7.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from uvicorn->lmdeploy==0.3.0) (8.1.7)
Requirement already satisfied: h11>=0.8 in /root/.conda/envs/agent/lib/python3.10/site-packages (from uvicorn->lmdeploy==0.3.0) (0.14.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /root/.conda/envs/agent/lib/python3.10/site-packages (from requests->transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in /root/.conda/envs/agent/lib/python3.10/site-packages (from requests->transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from requests->transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2.1.0)
Requirement already satisfied: certifi>=2017.4.17 in /root/.conda/envs/agent/lib/python3.10/site-packages (from requests->transformers<=4.38.2,>=4.33.0->lmdeploy==0.3.0) (2024.2.2)
Requirement already satisfied: anyio<5,>=3.4.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from starlette<0.38.0,>=0.37.2->fastapi->lmdeploy==0.3.0) (4.3.0)
Requirement already satisfied: MarkupSafe>=2.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from Jinja2->torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (2.1.3)
Requirement already satisfied: markdown-it-py>=2.2.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from rich->mmengine-lite->lmdeploy==0.3.0) (3.0.0)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from rich->mmengine-lite->lmdeploy==0.3.0) (2.17.2)
Requirement already satisfied: mpmath>=0.19 in /root/.conda/envs/agent/lib/python3.10/site-packages (from sympy->torch<=2.1.2,>=2.0.0->lmdeploy==0.3.0) (1.3.0)
Collecting importlib-metadata>=6.6.0 (from yapf->mmengine-lite->lmdeploy==0.3.0)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/2d/0a/679461c511447ffaf176567d5c496d1de27cbe34a87df6677d7171b2fbd4/importlib_metadata-7.1.0-py3-none-any.whl (24 kB)
Requirement already satisfied: platformdirs>=3.5.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from yapf->mmengine-lite->lmdeploy==0.3.0) (4.2.1)
Requirement already satisfied: tomlit>=2.0.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from yapf->mmengine-lite->lmdeploy==0.3.0) (2.0.1)
Requirement already satisfied: sniffio>=1.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from anyio<5,>=3.4.0->starlette<0.38.0,>=0.37.2->fastapi->lmdeploy==0.3.0) (1.3.1)
Requirement already satisfied: exceptiongroup>=1.0.2 in /root/.conda/envs/agent/lib/python3.10/site-packages (from anyio<5,>=3.4.0->starlette<0.38.0,>=0.37.2->fastapi->lmdeploy==0.3.0) (1.2.1)
Collecting zipp>=0.5 (from importlib-metadata>=6.6.0->yapf->mmengine-lite->lmdeploy==0.3.0)
  Using cached https://pypi.tuna.tsinghua.edu.cn/packages/c2/0a/ba9d0ee9536d3ef73a3448e931776e65b36f128d344e175bc32b092a8bf/zipp-3.18.1-py3-none-any.whl (8.2 kB)
Requirement already satisfied: mdurl>=0.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from markdown-it-py>=2.2.0->rich->mmengine-lite->lmdeploy==0.3.0) (0.1.2)
Installing collected packages: sentencepiece, zipp, uvicorn, termcolor, shortuuid, safetensors, pynvml, nvidia-nccl-cu12, nvidia-curand-cu12, nvidia-cuda-runtime-cu12, nvidia-cublas-cu12, fsspec, starlette, importlib-metadata, huggingface-hub, fire, yapf, tokenizers, fastapi, accelerate, transformers, mmengine-lite, peft, lmdeploy
Successfully installed accelerate-0.29.3 fastapi-0.110.2 fire-0.6.0 fsspec-2024.3.1 huggingface-hub-0.22.2 importlib-metadata-7.1.0 lmdeploy-0.3.0 mmengine-lite-0.10.4 nvidia-cublas-cu12-12.4.5.8 nvidia-cuda-runtime-cu12-12.4.127 nvidia-curand-cu12-10.3.5.147 nvidia-nccl-cu12-2.21.5 peft-0.9.0 pynvml-11.5.0 safetensors-0.4.3 sentencepiece-0.2.0 shortuuid-1.0.13 starlette-0.37.2 termcolor-2.4.0 tokenizers-0.15.2 transformers-4.38.2 uvicorn-0.29.0 yapf-0.40.2 zipp-3.18.1
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 instead: https://pip.pypa.io/warnings/venv
(agent) root@intern-studio-50023492:~/agent# cd /root/agent
(agent) root@intern-studio-50023492:~/agent# git clone -b camp2 https://gitee.com/internlm/Tutorial.git
Cloning into 'Tutorial'...
remote: Enumerating objects: 1321, done.
remote: Counting objects: 100% (1321/1321), done.
remote: Compressing objects: 100% (628/628), done.
remote: Total 1321 (delta 663), reused 1306 (delta 648), pack-reused 0
Receiving objects: 100% (1321/1321), 61.55 MiB | 9.09 MiB/s, done.
Resolving deltas: 100% (663/663), done.
Updating files: 100% (157/157), done.
(agent) root@intern-studio-50023492:~/agent# lmdeploy serve api_server /root/share/new_models/Shanghai_AI_Laboratory/internlm2-chat-7b \
> --server-name 127.0.0.1 \
> --model-name internlm2-chat-7b \
> --cache-max-entry-count 0.1

[WARNING] gemm_config.in is not found; using default GEMM algo
HINT: Please open http://127.0.0.1:23333 in a browser for detailed api usage!!!
HINT: Please open http://127.0.0.1:23333 in a browser for detailed api usage!!!
HINT: Please open http://127.0.0.1:23333 in a browser for detailed api usage!!!
INFO: Started server process [102681]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://127.0.0.1:23333 (Press CTRL+C to quit)
```



CPU 9.98%GPU-1: 30% Nvidia A100 0%内存 1.14 / 72 GB 1.59%显存 16860 / 24566 MiB 68.63%

File Edit Selection View Go Run Terminal Help

sshpython

ROOT< .ipython< .jupyter< .nv< agent< agentlego< lagent< Tutorial< road.jpg< huixiangdou< internlm2-chat-1.8b< models< opencompass< share< .aide_storage_lock\$.bashrc! .condarc\$.profile< .vimrc< pipeline_transformer.py< road.jpg

目录名称简介+-----+| / | 系统目录 | 每次停止开发机会将其恢复至系统（镜像）初始状态。不建议存储数据。+-----+| /root | 用户家目录 | 您的所有开发机共享此目录，不受开发机的启停影响。强烈建议将 conda 环境、代码仓库等所有数据存储在此目录下。+-----+| | | 【注意】该目录有存储限额，超过限额后新写入的数据会被静默删除！+-----+| /share | 共享目录 | 常用微调数据集、模型仓库、教程、xtuner 配置文件都存放在此。+-----+Tips:1. 快速从本地上传文件:scp -o StrictHostKeyChecking=no -r -P {端口} {本地目录} root@ssh.intern-ai.org.cn: {开发机目录}*注：在开发机 SSH 连接功能查看端口号2. 避免因终端关闭或 SSH 连接断开导致任务终止，强烈建议使用 tmux 将实验进程与终端窗口分离：https://www.ruanyifeng.com/blog/2019/10/tmux.html3. 查看 GPU 显存和算力使用率：studio-smi4. 使用InternStudio开箱即用的conda环境：studio-conda -h5. 将conda环境一键添加到jupyterlab:lab add {YOUR_CONDA_ENV_NAME}

(base) root@intern-studio-50023492:~# ssh -CNg -L 7860:127.0.0.1:7860 -L 23333:127.0.0.1:23333 root@ssh.intern-ai.org.cn -p 44524ssh: connect to host ssh.intern-ai.org.cn port 44524: Connection refused(base) root@intern-studio-50023492:~# ssh -CNg -L 7860:127.0.0.1:7860 -L 23333:127.0.0.1:23333 root@ssh.intern-ai.org.cn -p 45524The authenticity of host '[ssh.intern-ai.org.cn]:45524 ([8.130.47.207]:45524)' can't be established.ECDSA key fingerprint is SHA256:ooERnJEurbm06p+utj9HE818+8srgljcEP1Pru4a2zE.Are you sure you want to continue connecting (yes/no/[fingerprint])? yesWarning: Permanently added '[ssh.intern-ai.org.cn]:45524, [8.130.47.207]:45524' (ECDSA) to the list of known hosts.root@ssh.intern-ai.org.cn's password:

Attempting uninstall: requestsFound existing installation: requests 2.31.0Uninstalling requests-2.31.0:Successfully uninstalled requests-2.31.0ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.arxiv 2.1.0 requires requests==2.31.0, but you have requests 2.28.2 which is incompatible.jupyterlab-server 2.27.1 requires requests>=2.31, but you have requests 2.28.2 which is incompatible.Successfully installed aliyun-python-sdk-core-2.15.1 aliyun-python-sdk-kms-2.16.2 crcmod-1.7 cryptography-42.0.5 jmespath-0.10.0 markdown-3.6 model-index-0.1.11 opendatalab-0.0.10 openmim-0.3.9 openxlab-0.0.38 ordered-set-4.1.0 oss2-2.17.0 pycryptodome-3.20.0 pytz-2023.4 requests-2.28.2 rich-13.4.2 setuptools-60.2.0 tabulate-0.9.0 tqdm-4.65.2 urllib3-1.26.18WARNING: 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 instead: https://pip.pypa.io/warnings/veny(agent) root@intern-studio-50023492:~/agent# mim install mmdet==3.3.0Looking in indexes: https://pypi.tuna.tsinghua.edu.cn/simpleLooking in links: https://download.openmmlab.com/mmcv/dist/cu121/torch2.1.0/index.htmlCollecting mmdet==3.3.0Downloading https://pypi.tuna.tsinghua.edu.cn/packages/02/c7/c2d91161c9b3e1c237ea00e9cef7f4bfe2854769f56025db415b734aadb/mmdet-3.3.0-py3-none-any.whl (2.2 MB)4.7 MB/s eta 0:00:00Collecting matplotlib (from mmdet==3.3.0)Using cached https://pypi.tuna.tsinghua.edu.cn/packages/d6/07/061f97211f942101070a46fec813a6b1bd83590ed7b07c473cabd707fe7/matplotlib-3.8.4-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.6 MB)Requirement already satisfied: numpy in /root/.conda/envs/agent/lib/python3.10/site-packages (from mmdet==3.3.0) (1.26.4)Collecting pycocotools (from mmdet==3.3.0)Downloading https://pypi.tuna.tsinghua.edu.cn/packages/ba/64/0451cf41a00fd5ac4501de4ea0e395b7d909e09d665e56890b5d3809ae26/pycocotools-2.0.7-cp310-cp310-manylinux_2_17_x86_64.manylinu

main0/02

模型名称:

internlm2-chat-7b

系统提示词

当开启工具以及代码时，根据需求
选择合适的工具进行调用

数据分析提示词

你现在已经能够在一个有状态的
Jupyter 笔记本环境中运行 Python
代码。当你向 python 发送含有
Python 代码的消息时，它将在该环

插件提示词

你可以使用如下工具：
{prompt}
如果你已经获得足够信息，请直接
给出答案。避免不必要的工具调用！

模型IP:

10.140.0.220:23333

插件选择

ArxivSearch

☐ 数据分析

清空对话

上传文件

Drag and drop file here

Limit 200MB per file

Browse files



Agent Web Demo



请帮我搜索 InternLM2 Technical Report

TypeError: string indices must be integers

Traceback:

```
File "/root/.conda/envs/agent/lib/python3.10/site-packages/streamlit/runtime/scriptrunner/script_runner.py", line 584, in _run_script
    exec(code, module.__dict__)
File "/root/agent/lagent/examples/internlm2_agent_web_demo.py", line 333, in <module>
    main()
File "/root/agent/lagent/examples/internlm2_agent_web_demo.py", line 286, in main
    for agent_return in st.session_state['chatbot'].stream_chat(
File "/root/agent/lagent/lagent/agents/internlm2_agent.py", line 287, in stream_chat
    for model_state, res, _ in self._llm.stream_chat(prompt, **kwargs):
File "/root/agent/lagent/lagent/llms/lmdopoly_wrapper.py", line 422, in stream_chat
    resp += text['choices'][0]['text']
```

IP输错了

模型名称:

internlm2-chat-7b

系统提示词

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插件提示词

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如果你已获得足够信息，请直接
给出答案。避免不必要的工具调用！

模型ID:

127.0.0.1:23333

插件选择

ArxivSearch

☐ 数据分析

清空对话

上传文件

Drag and drop file here

Limit 200MB per file

Browse files



Lagent Web Demo



请帮我搜索 InternLM2 Technical Report

```
{
  "name": "ArxivSearch",
  "parameters": {
    "query": "InternLM2 Technical Report"
  }
}
```

```
{"content": "Published: 2024-03-26\nTitle: InternLM2 Technical Report\nAuthors: Zheng Cai, Maosong Cao, Haojiong Chen, Kai Chen, Keyu
```

以下是关于"InternLM2 Technical Report"的搜索结果：\n\n1. 标题： InternLM2 Technical Report\n作者： Zheng Cai, Maosong Cao, Haojiong Chen, Kai Chen, Keyu Chen, Xin Chen, Xun Chen, Zehui Chen, Zhi Chen, Pei Chu, Xiaoyi Dong, Haodong Duan, Qi Fan, Zhaoye Fei, Yang Gao, Jiaye Ge, Chenya Gu, Yuzhe Gu, Tao Gui, Aijia Guo, Qipeng Guo, Conghui He, Yingfan Hu, Ting Huang, Tao Jiang, Penglong Jiao, Zhenjiang Jin, Zhikai Lei, Jiaxing Li, Jingwen Li, Linyang Li, Shuaibin Li, Wei Li, Yining Li, Hongwei Liu, Jiangning Liu, Jiawei Hong, Kaiwen Liu, Kuikun Liu, Xiaoran Liu, Chengqi Lv, Haijun Lv, Kai Lv, Li Ma, Runyuan Ma, Zerun Ma, Wenchang Ning, Linke Ouyang, Jiantao Qiu, Yuan Qu, Fukai Shang, Yunfan Shao, Demin Song, Zifan Song, Zhihao Sui, Peng Sun, Yu Sun, Huanze Tang, Bin Wang, Guoteng Wang, Jiaqi Wang, Jiayu Wang, Rui Wang, Yudong Wang, Ziyi Wang, Xingjian Wei, Qizhen Weng, Fan Wu, Yingtong Xiong, Chao Xu, Ruiliang Xu, Hang Yan, Yirong Yan, Xiaogui Yang, Haochen Ye, Huaiyuan Ying, Jia Yu, Jing Yu, Yuhang Zang, Chuyu Zhang, Li Zhang, Pan Zhang, Peng Zhang, Ruijie Zhang, Shuo Zhang, Songyang Zhang, Wenjian Zhang, Wenwei Zhang, Xingcheng Zhang, Xinyue Zhang, Hui Zhao, Qian Zhao, Xiaomeng Zhao, Fengzhe Zhou, Zaida Zhou, Jingming Zhuo, Yicheng Zou, Xipeng Qiu, Yu Qiao, Dahua Lin\n\n摘要：该报告介绍了InternLM2，一种开源的大型语言模型，它在多个方面和基准测试中表现出色。该模型采用了创新的预训练和优化技术，并详细介绍了其预训练过程。InternLM2还采用了Supervised Fine-Tuning和一种名为COOL RLHF的新型强化学习技术，以解决人类偏好和奖励作弊问题。该报告还提供了不同训练阶段和模型大小的InternLM2模型，以供社区参考。 \n\n2. 标题： Cumulative Reports of the SoNDe Project July 2017\n作者： Sebastian Jaksch, Ralf Engels, Günter Kemmerling, Codin Gheorghe, Philip Pahlsson, Sylvain Désert, Frederic Ott\n\n摘要：该报告是SoNDe探测器项目截至2017年7月的累积报告。报告内容包括：\n- 1x1模块技术演示器的报告\n- 所用材料的报告\n- 组件辐射硬度的报告\n- 潜在附加应用的报告\n- 2x2模块技术演示器的报告\n- 2x2技术演示器测试结果的报告\n\n3. 标题： Banach Couples. I. Elementary Theory\n作者： Jaak Peetre, Per Nilsson\n\n摘要：该报告是Jaak Peetre的"Banach Couples. I. Elementary Theory"的精确副本，最初于1971年在吕勒（Lund）作为技术报告发布。报告中还添加了更多最近的一般参考资料，并对一些参考资料进行了更新。 \n\n希望这些信息对您有所帮助！



CPU 11.14%GPU-1: 30% Nvidia A100 0%内存 1.23 / 72 GB 1.71%显存 16964 / 24566 MiB 69.05%

File Edit Selection View Go Run Terminal Help

root

EXPLORER

ROOT

.ipython

.jupyter

.nv

agent

agentlego

agent

Tutorial

direct_use.py

road.jpg

huixiangdou

internlm2-chat-1_8b

models

opencompass

share

.aide_storage_lock

.bash_history

.bashrc

! .condarc

.profile

.vimrc

pipeline_transformer.py

road.jpg

agent > direct_use.py

1 import re

2

3 import cv2

4 from agentlego.apis import load_tool

5

6 # load tool

7 tool = load_tool('ObjectDetection', device='cuda')

8

9 # apply tool

10 visualization = tool('/root/agent/road.jpg')

11 print(visualization)

12

13 # visualize

14 image = cv2.imread('/root/agent/road.jpg')

15

16 preds = visualization.split('\n')

17 pattern = r'(\w+) \((\d+), (\d+), (\d+)\), score (\d+)'

18

19 for pred in preds:

20 name, x1, y1, x2, y2, score = re.match(pattern, pred).groups()

21 x1, y1, x2, y2, score = int(x1), int(y1), int(x2), int(y2), int(score)

22 cv2.rectangle(image, (x1, y1), (x2, y2), (0, 255, 0), 1)

23 cv2.putText(image, f'{name} {score}', (x1, y1), cv2.FONT_HERSHEY_SIMPLEX, 0.8, (0, 255, 0), 1)

24

25 cv2.imwrite('/root/agent/road_detection_direct.jpg', image)

bash

Using cached https://pypi.tuna.tsinghua.edu.cn/packages/9d/ea/6d76df31432a0e6fdf81681a895f009a4bb47b3c39036db3e1b528191d52/pyparsing-3.1.2-py3-none-any.whl (103 kB)

Requirement already satisfied: python-dateutil>=2.7 in /root/.conda/envs/agent/lib/python3.10/site-packages (from matplotlib->mmdet==3.3.0) (2.9.0.post0)

Requirement already satisfied: markdown-it-py>=2.2.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from rich->mmengine<1.0.0,>=0.7.1->mmdet==3.3.0) (3.0.0)

Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from rich->mmengine<1.0.0,>=0.7.1->mmdet==3.3.0) (2.17.2)

Requirement already satisfied: importlib-metadata>=6.6.0 in /root/.conda/envs/agent/lib/python3.10/site-packages (from yapf->mmcv<2.2.0,>=2.0.0rc4->mmdet==3.3.0) (7.1.0)

Requirement already satisfied: platformdirs>=3.5.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from yapf->mmcv<2.2.0,>=2.0.0rc4->mmdet==3.3.0) (4.2.1)

Requirement already satisfied: tomli>=2.0.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from yapf->mmcv<2.2.0,>=2.0.0rc4->mmdet==3.3.0) (2.0.1)

Requirement already satisfied: zipp>=0.5 in /root/.conda/envs/agent/lib/python3.10/site-packages (from importlib-metadata>=6.6.0->yapf->mmcv<2.2.0,>=2.0.0rc4->mmdet==3.3.0) (3.18.1)

Requirement already satisfied: mdurl<=0.1 in /root/.conda/envs/agent/lib/python3.10/site-packages (from markdown-it-py>=2.2.0->rich->mmengine<1.0.0,>=0.7.1->mmdet==3.3.0) (0.1.2)

Installing collected packages: terminaltables, shapely, scipy, pyparsing, opencv-python, kiwisolver, fonttools, cyclor, contourpy, matplotlib, pycocotools, mmengine, mmcv, mmdet

Successfully installed contourpy-1.2.1 cyclor-0.12.1 fonttools-4.51.0 kiwisolver-1.4.5 matplotlib-3.8.4 mmcv-2.1.0 mmdet-3.3.0 mmengine-0.10.4 opencv-python-4.9.0.80 pycocotools-2.0.7 pyparsing-3.1.2 scipy-1.13.0 shapely-2.0.4 terminaltables-3.1.10

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 instead: https://pip.pypa.io/warnings/venv

o (agent) root@intern-studio-50023492:~/agent#

o (agent) root@intern-studio-50023492:~/agent# touch /root/agent/direct_use.py

o (agent) root@intern-studio-50023492:~/agent#

OUTLINE

TIMELINE

main

Discovering Python Interpreters

Ln 25, Col 60 Spaces: 4 UTF-8 LF Python

CPU 9.84%GPU-1: 30% Nvidia A100 0%内存 1.37 / 72 GB 1.9%显存 16964 / 24566 MiB 69.05%

File Edit Selection View Go Run Terminal Help

root


EXPLORER

ROOT

- > .ipython
- > .jupyter
- > .nv
- > agent
 - > agentiego
 - > lagent
 - > Tutorial
 - > direct_use.py
 - > road_detection_direct.jpg
 - > road.jpg
 - > huixiangdou
 - > internlm2-chat-1.8b
 - > models
 - > opencompass
 - > share
 - ≡ .aide_storage_lock
 - ≡ .bash_history
 - \$.bashrc
 - ! .condarc
 - \$.profile
 - ≡ .vimrc
 - > pipeline_transformer.py
 - > road.jpg

road.jpg


agent > road.jpg



direct_use.py

road_detection_direct.jpg

agent > road_detection_direct.jpg



bash

se check whether "mmdet" is a correct scope, or whether the registry is initialized.
/root/.conda/envs/agent/lib/python3.10/site-packages/mengine/visualization/visualizer.py:196: UserWarning: Failed to add <class 'mengine.visualization.vis_backend.LocalVisBackend'>, please provide the 'save_dir' argument.
warnings.warn(f'Failed to add {vis_backend.__class__}',
/root/.conda/envs/agent/lib/python3.10/site-packages/torch/functional.py:504: UserWarning: torch.meshgrid: in an upcoming release, it will be required to pass the indexing argument. (Triggered internally at
/opt/conda/conda-bld/pytorch_1702400410390/work/aten/src/ATen/native/TensorShape.cpp:3526.)
return _VF.meshgrid(tensors, **kwargs) # type: ignore[attr-defined]
Inference
truck (345, 428, 528, 599), score 83
car (771, 510, 837, 565), score 81
car (604, 518, 677, 569), score 75
person (866, 503, 905, 595), score 74
person (287, 513, 320, 596), score 74
person (964, 501, 999, 604), score 72
person (1009, 503, 1047, 602), score 69
person (259, 510, 279, 575), score 65
car (1074, 524, 1275, 691), score 64
person (993, 508, 1016, 597), score 62
truck (689, 483, 764, 561), score 62
bicycle (873, 551, 903, 602), score 60
person (680, 523, 699, 567), score 55
bicycle (968, 551, 996, 609), score 53
bus (826, 482, 930, 560), score 52
bicycle (1011, 551, 1043, 617), score 51
(agent) root@intern-studio-50023492: ~/agent#
(agent) root@intern-studio-50023492: ~/agent#

main

Whole Image 1280x853 443.18KB