第五节课作业 (请交到第5节课)

基础作业 (结营必做)

完成以下任务,并将实现过程记录截图:

- 配置 LMDeploy 运行环境
- 以命令行方式与 InternLM2-Chat-1.8B 模型对话

进阶作业

完成以下任务,并将实现过程记录截图:

- 设置KV Cache最大占用比例为0.4,开启W4A16量化,以命令行方式与模型对话。(优秀学员必做)
- 以API Server方式启动 Imdeploy,开启 W4A16量化,调整KV Cache的占用比例为0.4,分别使用命令行客户端与Gradio网页客户端与模型对话。(优秀学员必做)
- 使用W4A16量化,调整KV Cache的占用比例为0.4,使用Python代码集成的方式运行internIm2-chat-1.8b模型。(优秀学员必做)
- 使用 LMDeploy 运行视觉多模态大模型 llava gradio demo。(优秀学员必做)
- 将 LMDeploy Web Demo 部署到 OpenXLab 。

GPU-1: 10% Nvidia A100 0% (D) ~ 内存 0.49 / 24 GB 2.06% 显存 0 / 8182 MiB 0% Downloading https://pypi.tuna.tsinghua.edu.cn/packages/49/df/1fceb2f8900f8639e278b056416d49134fb8d84c5942ffaa01ad34782422/packaging-24.0-py3-none-any.whl (53 kB) eta 0:00:00 Collecting psutil (from ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/c5/4f/0e22aaa246f96d6ac87fe5ebb9c5a693fbe8877f537a1022527c47ca43c5/psuti1-5.9.8-cp36-abi3-manylinux_2_12_x86_64.manylinux2010_x86_64.manylinux_2 17_x86_64.manylinux2014_x86_64.wh1 (288 kB) eta 0:00:00 ollecting pyzmq>=24 (from ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/4f/37/750abff50e6b407d214dcbc347ae64d76974b4ee655d4d60fb389dc603c8/pyzmq-26.0.2-cp310-cp310-manylinux_2_28_x86_64.whl (919 kB) 920.0/920.0 kB 6.8 MB/s eta 0:00:00 ollecting tornado>=6.1 (from ipykernel) Downloading https://pvpi.tuna.tsinghua.edu.cn/packages/9f/12/11d0a757bb67278d3380d41955ae98527d5ad18330b2edbdc8de222b569b/tornado-6.4-cp38-abi3-manylinux 2 5 x86 64.manylinux 2 86 64.manylinux 2 17: 6_64. manylinux2014_x86_64. wh1 (435 kB) 435. 4/435. 4 kB
3.5 MB/s eta 0:00:00 ollecting traitlets>=5.4.0 (from ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/00/c0/8f5d070730d7836adc9c9b6408dec68c6ced86b304a9b26a14df072a6e8c/trait1ets-5.14.3-py3-none-any.wh1 (85 kB) eta 0:00:0 ollecting decorator (from ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/d5/50/83c593b07763e1161326b3b8c6686f0f4b0f24d5526546bee538c89837d6/decorator-5.1.1-py3-none-any.whl (9.1 kB) ollecting jedi>=0.16 (from ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/20/9f/bc63f0f0737ad7a60800bfd472a4836661adae21f9c2535f3957b1e54ceb/jedi-0.19.1-py2.py3-none-any.wh1 (1.6 MB) eta 0:00:0 Collecting prompt-toolkit<3.1.0,>=3.0.41 (from ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/ee/fd/ca7bf3869e7caa7a037e23078539467b433a4e01eebd93f77180ab927766/prompt_toolkit-3.0.43-py3-none-any.whl (386 kB) 3/s eta 0:00:00 ollecting pygments>=2.4.0 (from ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/97/9c/372fef8377a6e340b1704768d20daaded98bf13282b5327beb2e2fe2c7ef/pygments-2.17.2-py3-none-any.whl (1.2 MB) eta 0:00:00 Collecting stack-data (from ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/f1/7b/celeafaf1a76852e2ec9b22edecf1daa58175c090266e9f6c64afcd81d91/stack_data-0.6.3-py3-none-any.whl (24 kB) ollecting exceptiongroup (from ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/01/90/79fe92dd413a9cab314ef5c591b5aa9b9ba787ae4cadab75055b0ae00b33/exceptiongroup-1.2.1-py3-none-any.wh1 (16 kB) equirement already satisfied: typing-extensions in ./.conda/envs/lmdeploy/lib/python3.10/site-packages (from ipython>=7.23.1->ipykernel) (4.9.0) ollecting pexpect>4.3 (from ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/9e/c3/059298687310d527a58bb01f3b1965787ee3b40dce76752eda8b44e9a2c5/pexpect-4.9.0-py2.py3-none-any.wh1 (63 kB) Collecting python-dateutil>=2.8.2 (from jupyter-client>=6.1.12->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/ec/57/56b9bcc3c9c6a792fcbaf139543cee77261f3651ca9da0c93f5c1221264b/python_dateuti1-2.9.0.post0-py2.py3-none-any.wh1 (229 kB) eta O ollecting platformdirs>=2.5 (from jupyter-core!=5.0.*,>=4.12->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/b0/15/1691fa5aaddc0c4ea4901c26f6137c29d5f6673596fe960a0340e8c308e1/platformdirs-4.2.1-py3-none-any.whl (17 kB) ollecting parso<0.9.0,>=0.8.3 (from jedi>=0.16->ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/c6/ac/dac4a63f978e4dcb3c6d3a78c4d8e0192a113d288502a1216950c41b1027/parso-0.8.4-py2.py3-none-any.wh1 (103 kB) ollecting ptyprocess>=0.5 (from pexpect>4.3->ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/22/a6/858897256d0deac81a172289110f31629fc4cee19b6f01283303e18c8db3/ptyprocess-0.7.0-py2.py3-none-any.wh1 (13 kB) ollecting wcwidth (from prompt-toolkit<3.1.0,>=3.0.41->ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/fd/84/fd2ba7aafacbad3c4201d395674fc6348826569da3c0937e75505ead3528/wcwidth-0.2.13-pv2.pv3-none-any.wh1 (34 kB) ollecting six>=1.5 (from python-dateutil>=2.8.2->jupyter-client>=6.1.12->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/d9/5a/e7c3ladbe875f2abbb91bd84cf2dc52d792b5a0150678ldbcf25c91daf11/six-1.16.0-py2.py3-none-any.wh1 (11 kB) ollecting executing>=1.2.0 (from stack-data->ipython>=7.23.1->ipykernel) Downloading https://pypi.tuma.tsinghua.edu.cn/packages/80/03/6ea8b1b2a5ab40a7a60dc464d3daa7aa546e0a74d74a9f8ff551ea7905db/executing-2.0.1-py2.py3-none-any.wh1 (24 kB) Collecting asttokens>=2.1.0 (from stack-data->ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/45/86/4736ac618d82a20d87d2f92ae19441ebc7ac9e7a581d7e58bbe79233b24a/asttokens-2.4.1-py2.py3-none-any.wh1 (27 kB) Collecting pure-eval (from stack-data->ipython>=7.23.1->ipykernel) Downloading https://pypi.tuna.tsinghua.edu.cn/packages/2b/27/77f9d5684e6bce929f5cfe18d6cfbe5133013c06cb2fbf5933670e60761d/pure_eval-0.2.2-py3-none-any.wh1 (11 kB) Installing collected packages: wcwidth, pure-eval, ptyprocess, traitlets, tornado, six, pyzmq, pygments, psutil, prompt-toolkit, platformdirs, pexpect, parso, packaging, nest-asyncio, executing, except iongroup, 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-dateuti -2.9.0.post0 pyzmq-26.0.2 six-1.16.0 stack-data-0.6.3 tornado-6.4 trait1ets-5.14.3 wcwidth-0.2.13 G: 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 stalled kernelspec 1mdeploy in /root/.local/share/jupyter/kernels/1mdeploy mda环境: 1mdep1ov安装 ALL DONE! ______

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



