

Re



e9dd11b · 2 years ago



1529 lines (1450...

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1  import os
2  import sys
3
4  now_dir = os.getcwd()
5  sys.path.append(now_dir)
6  from infer.modules.vc.modules import VC
7  from infer.modules.uvr5.modules import uvr
8  from infer.lib.train.process_ckpt import (
9      change_info,
10     extract_small_model,
11     merge,
12     show_info,
13 )
14 from i18n.i18n import I18nAuto
15 from configs.config import Config
16 from sklearn.cluster import MiniBatchKMeans
17 from dotenv import load_dotenv
18 import torch
19
20 try:
21     import intel_extension_for_pytorch as ipex # pylint: disable=import-error, unused-import
22
23     if torch.xpu.is_available():
24         from infer.modules.ipex import ipex_init
25
26         ipex_init()
27 except Exception: # pylint: disable=broad-exception-caught
28     pass
29 import numpy as np
30 import gradio as gr
31 import faiss
32 import fairseq
33 import pathlib
34 import json
35 from time import sleep
36 from subprocess import Popen
37 from typing import List, Dict, Tuple, Union, Optional, Any

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37 from random import shuffle
38 import warnings
39 import traceback
40 import threading
41 import shutil
42 import logging
43
44
45 logging.getLogger("numba").setLevel(logging.WARNING)
46
47 logger = logging.getLogger(__name__)
48
49 tmp = os.path.join(now_dir, "TEMP")
50 shutil.rmtree(tmp, ignore_errors=True)
51 shutil.rmtree("%s/runtime/Lib/site-packages/infer_pack" % (now_dir), ignore_errors=True)
52 shutil.rmtree("%s/runtime/Lib/site-packages/uvr5_pack" % (now_dir), ignore_errors=True)
53 os.makedirs(tmp, exist_ok=True)
54 os.makedirs(os.path.join(now_dir, "logs"), exist_ok=True)
55 os.makedirs(os.path.join(now_dir, "assets/weights"), exist_ok=True)
56 os.environ["TEMP"] = tmp
57 warnings.filterwarnings("ignore")
58 torch.manual_seed(114514)
59
60
61 load_dotenv()
62 config = Config()
63 vc = VC(config)
64
65
66 if config.dml == True:
67
68     def forward_dml(ctx, x, scale):
69         ctx.scale = scale
70         res = x.clone().detach()
71         return res
72
73     fairseq.modules.grad_multiply.GradMultiply.forward = forward_dml
74 i18n = I18nAuto()
75 logger.info(i18n)

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1365         )
1366     with gr.Row():
1367         sr_ = gr.Radio(
1368             label=i18n("目标采样率"),
1369             choices=["40k", "48k"],
1370             value="40k",
1371             interactive=True,
1372         )
1373         if_f0_ = gr.Radio(
1374             label=i18n("模型是否带音高指导"),
1375             choices=[i18n("是"), i18n("否")],
1376             value=i18n("是"),
1377             interactive=True,
1378         )
1379         info__ = gr.Textbox(
1380             label=i18n("要置入的模型信息"), value="", max_lines=8, interactive=True
1381         )
1382         name_to_save0 = gr.Textbox(
1383             label=i18n("保存的模型名不带后缀"),
1384             value="",
1385             max_lines=1,
1386             interactive=True,
1387         )
1388         version_2 = gr.Radio(
1389             label=i18n("模型版本型号"),
1390             choices=["v1", "v2"],
1391             value="v1",
1392             interactive=True,
1393         )
1394     with gr.Row():
1395         but6 = gr.Button(i18n("融合"), variant="primary")
1396         info4 = gr.Textbox(label=i18n("输出信息"), value="", max_lines=8)
1397     but6.click(
1398         merge,
1399         [
1400             ckpt_a,
1401             ckpt_b,
1402             alpha_a,
1403             sr_,
1404             if_f0_,
1405             info__,
1406             name_to_save0,
1407             version_2,
1408         ],
1409         info4,

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1410         api_name="ckpt_merge",
1411     ) # def merge(path1,path2,alpha1,sr,f0,info):
1412     with gr.Group():
1413         gr.Markdown(value=i18n("修改模型信息(仅支持weights文件夹下提取的小模型文件)"))
1414         with gr.Row():
1415             ckpt_path0 = gr.Textbox(
1416                 label=i18n("模型路径"), value="", interactive=True
1417             )
1418             info_ = gr.Textbox(
1419                 label=i18n("要改的模型信息"), value="", max_lines=8, interactive=True
1420             )
1421             name_to_save1 = gr.Textbox(
1422                 label=i18n("保存的文件名, 默认空为和源文件同名"),
1423                 value="",
1424                 max_lines=8,
1425                 interactive=True,
1426             )
1427         with gr.Row():
1428             but7 = gr.Button(i18n("修改"), variant="primary")
1429             info5 = gr.Textbox(label=i18n("输出信息"), value="", max_lines=8)
1430         but7.click(
1431             change_info,
1432             [ckpt_path0, info_, name_to_save1],
1433             info5,
1434             api_name="ckpt_modify",
1435         )
1436     with gr.Group():
1437         gr.Markdown(value=i18n("查看模型信息(仅支持weights文件夹下提取的小模型文件)"))
1438         with gr.Row():
1439             ckpt_path1 = gr.Textbox(
1440                 label=i18n("模型路径"), value="", interactive=True
1441             )
1442             but8 = gr.Button(i18n("查看"), variant="primary")
1443             info6 = gr.Textbox(label=i18n("输出信息"), value="", max_lines=8)
1444             but8.click(show_info, [ckpt_path1], info6, api_name="ckpt_show")
1445     with gr.Group():
1446         gr.Markdown(
1447             value=i18n(
1448                 "模型提取(输入logs文件夹下大文件模型路径),适用于训一半不想训了模型没有自动提取保存小
1449             )
1450         )
1451     with gr.Row():
1452         ckpt_path2 = gr.Textbox(
1453             label=i18n("模型路径"),
1454             value="E:\\codes\\py39\\logs\\mi-test_f0_48k\\G_23333.pth",
1455             interactive=True,
1456         )
1457         save_name = gr.Textbox(
1458             label=i18n("保存名"), value="", interactive=True
1459         )
1460         sr__ = gr.Radio(
1461             label=i18n("目标采样率"),
1462             choices=["32k", "40k", "48k"],

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1463         value="40k",
1464         interactive=True,
1465     )
```

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```
1470         interactive=True,
1471     )
1472     version_1 = gr.Radio(
1473         label=i18n("模型版本型号"),
1474         choices=["v1", "v2"],
1475         value="v2",
1476         interactive=True,
1477     )
1478     info___ = gr.Textbox(
1479         label=i18n("要置入的模型信息"), value="", max_lines=8, interactive=True
1480     )
1481     but9 = gr.Button(i18n("提取"), variant="primary")
1482     info7 = gr.Textbox(label=i18n("输出信息"), value="", max_lines=8)
1483     ckpt_path2.change(
1484         change_info_, [ckpt_path2], [sr__, if_f0__, version_1]
1485     )
1486     but9.click(
1487         extract_small_model,
1488         [ckpt_path2, save_name, sr__, if_f0__, info___, version_1],
1489         info7,
1490         api_name="ckpt_extract",
1491     )
1492
1493     with gr.TabItem(i18n("Onnx导出")):
1494         with gr.Row():
1495             ckpt_dir = gr.Textbox(label=i18n("RVC模型路径"), value="", interactive=True)
1496         with gr.Row():
1497             onnx_dir = gr.Textbox(
1498                 label=i18n("Onnx输出路径"), value="", interactive=True
1499             )
1500         with gr.Row():
1501             infoOnnx = gr.Label(label="info")
1502         with gr.Row():
1503             butOnnx = gr.Button(i18n("导出Onnx模型"), variant="primary")
1504             butOnnx.click(
1505                 export_onnx, [ckpt_dir, onnx_dir], infoOnnx, api_name="export_onnx"
1506             )
1507
1508     tab_faq = i18n("常见问题解答")
1509     with gr.TabItem(tab_faq):
1510         try:
1511             if tab_faq == "常见问题解答":
1512                 with open("docs/cn/faq.md", "r", encoding="utf8") as f:
1513                     info = f.read()
1514             else:
1515                 with open("docs/en/faq_en.md", "r", encoding="utf8") as f:
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1516         info = f.read()
1517         gr.Markdown(value=info)
1518     except:
1519         gr.Markdown(traceback.format_exc())
1520
1521     if config.iscolab:
1522         app.queue(concurrency_count=511, max_size=1022).launch(share=True)
1523     else:
1524         app.queue(concurrency_count=511, max_size=1022).launch(
1525             server_name="0.0.0.0",
1526             inbrowser=not config.noautoopen,
1527             server_port=config.listen_port,
1528             quiet=True,
1529         )
```