



```
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)
```













































```
1279         interactive=True,
1280     )
1281     sr2.change(
1282         change_sr2,
1283         [sr2, if_f0_3, version19],
1284         [pretrained_G14, pretrained_D15],
1285     )
1286     version19.change(
1287         change_version19,
1288         [sr2, if_f0_3, version19],
1289         [pretrained_G14, pretrained_D15, sr2],
1290     )
1291     if_f0_3.change(
1292         change_f0,
1293         [if_f0_3, sr2, version19],
1294         [f0method8, pretrained_G14, pretrained_D15],
1295     )
1296     gpus16 = gr.Textbox(
1297         label=i18n("以-分隔输入使用的卡号, 例如 0-1-2 使用卡0和卡1和卡2"),
1298         value=gpus,
1299         interactive=True,
1300     )
1301     but3 = gr.Button(i18n("训练模型"), variant="primary")
1302     but4 = gr.Button(i18n("训练特征索引"), variant="primary")
1303     but5 = gr.Button(i18n("一键训练"), variant="primary")
1304     info3 = gr.Textbox(label=i18n("输出信息"), value="", max_lines=10)
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1304         info3 = gr.Textbox(label=i18n("输出信息"), value="", max_lines=10)
1305     but3.click(
1306         click_train,
1307         [
1308             exp_dir1,
1309             sr2,
1310             if_f0_3,
1311             spk_id5,
1312             save_epoch10,
1313             total_epoch11,
1314             batch_size12,
1315             if_save_latest13,
1316             pretrained_G14,
1317             pretrained_D15,
1318             gpus16,
1319             if_cache_gpu17,
1320             if_save_every_weights18,
1321             version19,
1322         ],
1323         info3,
1324         api_name="train_start",
1325     )
1326     but4.click(train_index, [exp_dir1, version19], info3)
1327     but5.click(
1328         train1key,
1329         [
1330             exp_dir1,
1331             sr2,
1332             if_f0_3,
1333             trainset_dir4,
1334             spk_id5,
1335             np7,
1336             f0method8,
1337             save_epoch10,
1338             total_epoch11,
1339             batch_size12,
1340             if_save_latest13,
1341             pretrained_G14,
1342             pretrained_D15,
1343             gpus16,
1344             if_cache_gpu17,
1345             if_save_every_weights18,
1346             version19,
1347             gpus_rmvpe,
1348         ],
1349         info3,
1350         api_name="train_start_all",
1351     )
1352
1353     with gr.TabItem(i18n("ckpt处理")):
1354         with gr.Group():
1355             gr.Markdown(value=i18n("模型融合，可用于测试音色融合"))
1356             with gr.Row():

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1357 ckpt_a = gr.Textbox(label=i18n("A模型路径"), value="", interactive=True)
1358 ckpt_b = gr.Textbox(label=i18n("B模型路径"), value="", interactive=True)
1359 alpha_a = gr.Slider(
1360     minimum=0,
1361     maximum=1,
1362     label=i18n("A模型权重"),
1363     value=0.5,
1364     interactive=True,
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(

```

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**Code** Blame

Raw   

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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     )
1466     if_f0__ = gr.Radio(
1467         label=i18n("模型是否带音高指导,1是0否"),
1468         choices=["1", "0"],
1469         value="1",
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         )
```