

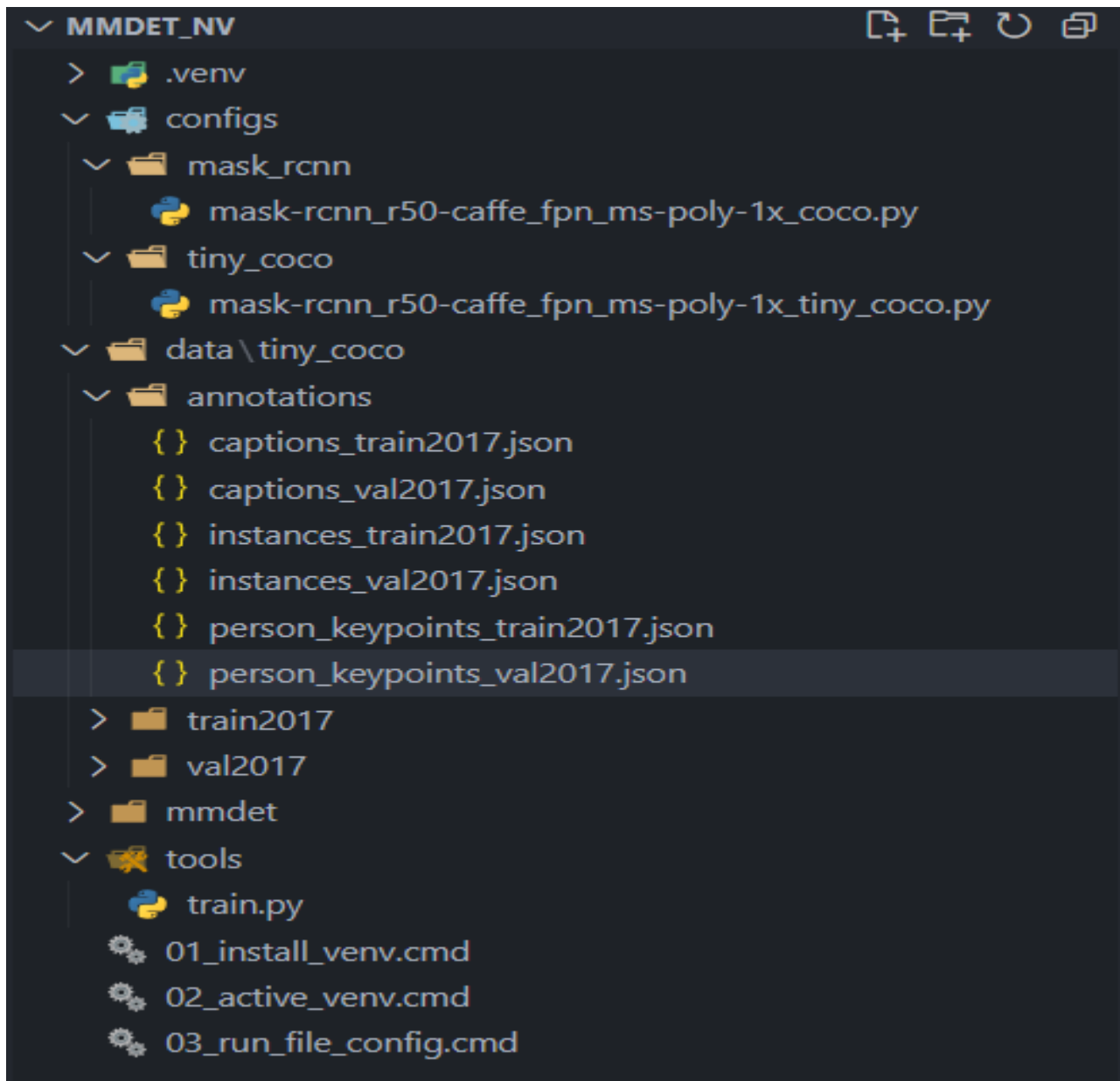
Report Bug

Set up môi trường:

```
01_install_venv.cmd X
01_install_venv.cmd
1  @ECHO OFF
2  rem Create virtual environment
3  python -m venv .venv
4  rem Active the created virtual environment
5  call .venv\Scripts\activate
6  python.exe -m pip install --upgrade pip
7
8  REM pip install -r requirements.txt
9  pip install torch==2.1.0 torchvision==0.16.0 torchaudio==2.1.0 --index-url https://download.pytorch.org/whl/cu121
10
11 pip install -U openmim
12 mim install mengine
13 mim install "mimcv==2.1.0"
14 mim install mmdet
```

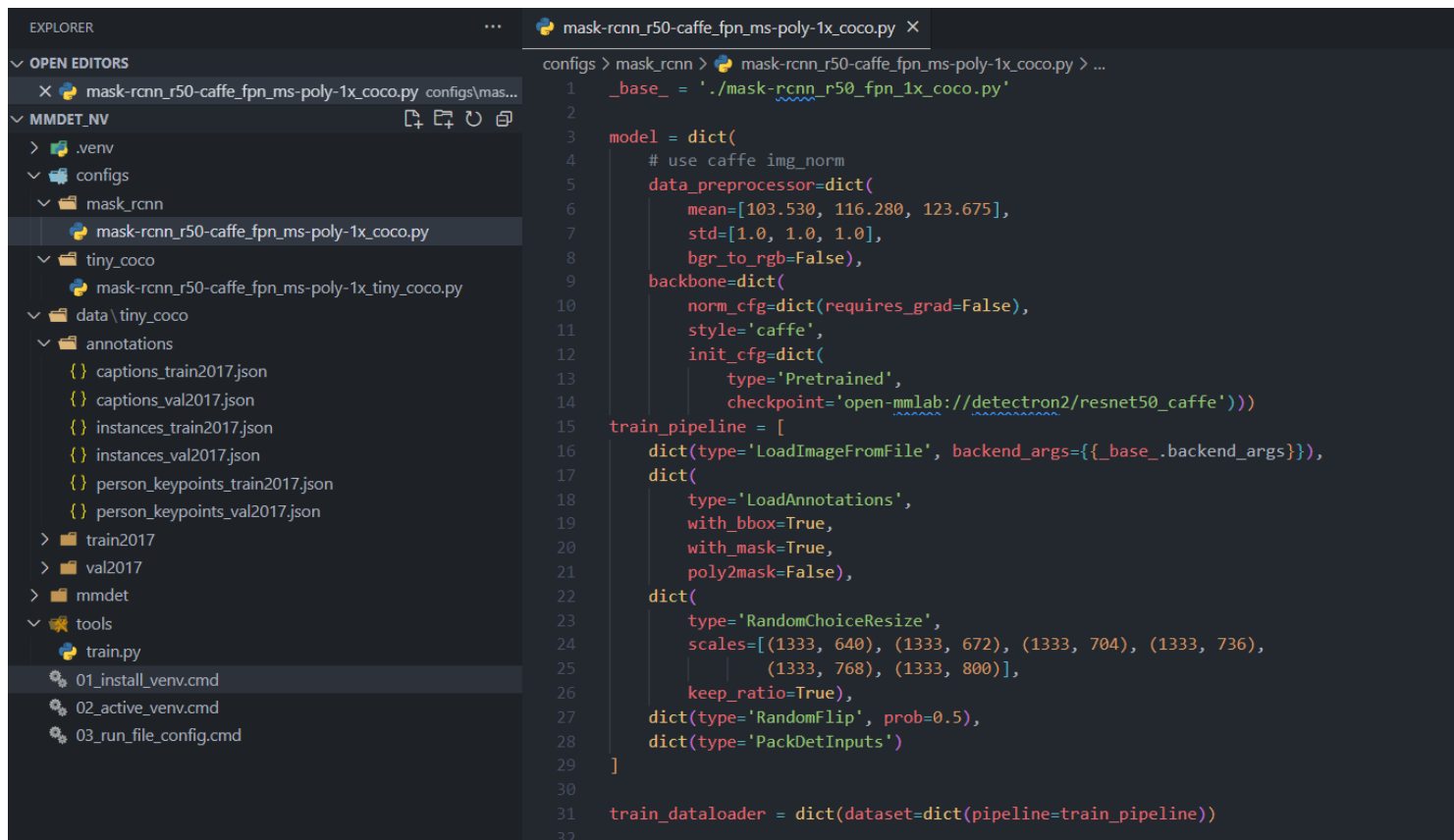
LINK DATASET: https://github.com/lizhogn/tiny_coco_dataset

Chuẩn bị cây thư mục:



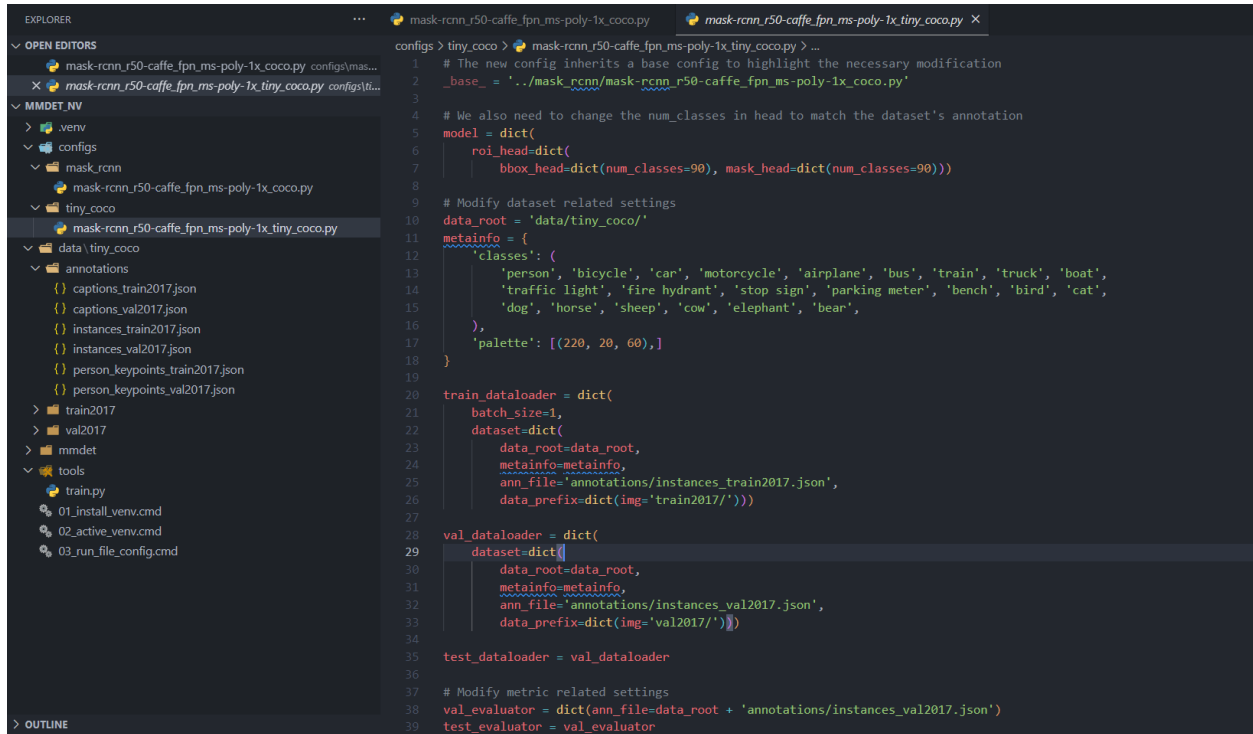
BUG#1: Không tìm thấy file config

- Để file `mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py` mặc định có `_base_ = './mask-rcnn_r50_fpn_1x_coco.py'`:



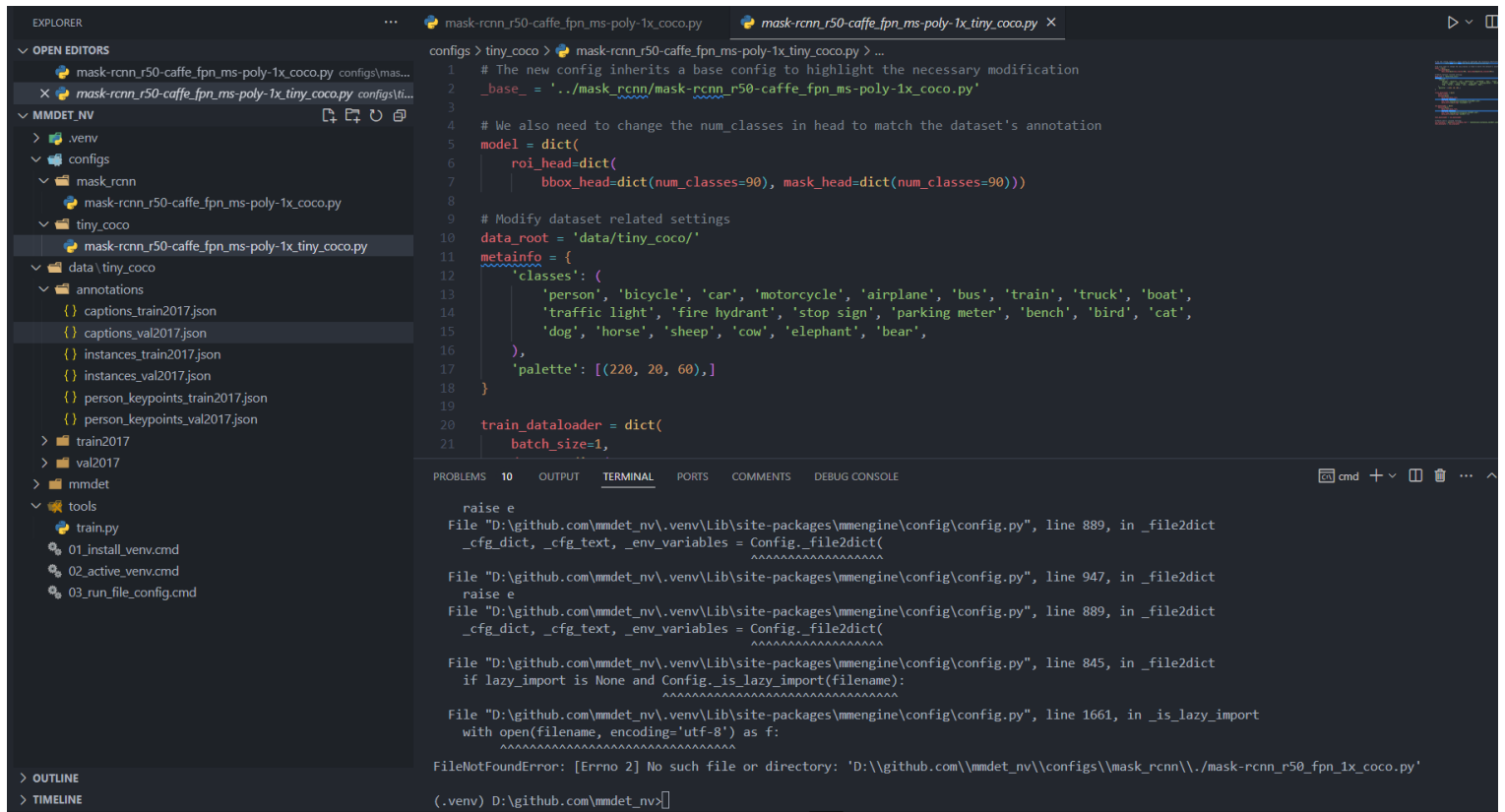
```
1  _base_ = './mask-rcnn_r50_fpn_1x_coco.py'
2
3  model = dict(
4      # use caffe img_norm
5      data_preprocessor=dict(
6          mean=[103.530, 116.280, 123.675],
7          std=[1.0, 1.0, 1.0],
8          bgr_to_rgb=False),
9      backbone=dict(
10         norm_cfg=dict(requires_grad=False),
11         style='caffe',
12         init_cfg=dict(
13             type='Pretrained',
14             checkpoint='open-mmlab://detectron2/resnet50_caffe'))
15  )
16  train_pipeline = [
17      dict(type='LoadImageFromFile', backend_args={{_base_.backend_args}}),
18      dict(
19          type='LoadAnnotations',
20          with_bbox=True,
21          with_mask=True,
22          poly2mask=False),
23      dict(
24          type='RandomChoiceResize',
25          scales=[(1333, 640), (1333, 672), (1333, 704), (1333, 736),
26                  (1333, 768), (1333, 800)],
27          keep_ratio=True),
28      dict(type='RandomFlip', prob=0.5),
29      dict(type='PackDetInputs')
30  ]
31  train_dataloader = dict(dataset=dict(pipeline=train_pipeline))
32
```

- Để file `mask-rcnn_r50-caffe_fpn_ms-poly-1x_tiny_coco.py` với cấu hình:



```
config > tiny_coco > mask-rcnn_r50-caffe_fpn_ms-poly-1x_tiny_coco.py > ...
1 # The new config inherits a base config to highlight the necessary modification
2 _base_ = '../mask_rcnn/mask_rcnn_r50-caffe_fpn_ms-poly-1x_coco.py'
3
4 # We also need to change the num_classes in head to match the dataset's annotation
5 model = dict(
6     roi_head=dict(
7         bbox_head=dict(num_classes=90), mask_head=dict(num_classes=90)))
8
9 # Modify dataset related settings
10 data_root = 'data/tiny_coco/'
11 meta_info = {
12     'classes': (
13         'person', 'bicycle', 'car', 'motorcycle', 'airplane', 'bus', 'train', 'truck', 'boat',
14         'traffic light', 'fire hydrant', 'stop sign', 'parking meter', 'bench', 'bird', 'cat',
15         'dog', 'horse', 'sheep', 'cow', 'elephant', 'bear',
16     ),
17     'palette': [(220, 20, 60),]
18 }
19
20 train_dataloader = dict(
21     batch_size=1,
22     dataset=dict(
23         data_root=data_root,
24         meta_info=meta_info,
25         ann_file='annotations/instances_train2017.json',
26         data_prefix=dict(img='train2017/'))
27 )
28
29 val_dataloader = dict(
30     dataset=dict(
31         data_root=data_root,
32         meta_info=meta_info,
33         ann_file='annotations/instances_val2017.json',
34         data_prefix=dict(img='val2017/'))
35 )
36
37 test_dataloader = val_dataloader
38
39 # Modify metric related settings
40 val_evaluator = dict(ann_file=data_root + 'annotations/instances_val2017.json')
41 test_evaluator = val_evaluator
```

Khi chạy sẽ có bug:



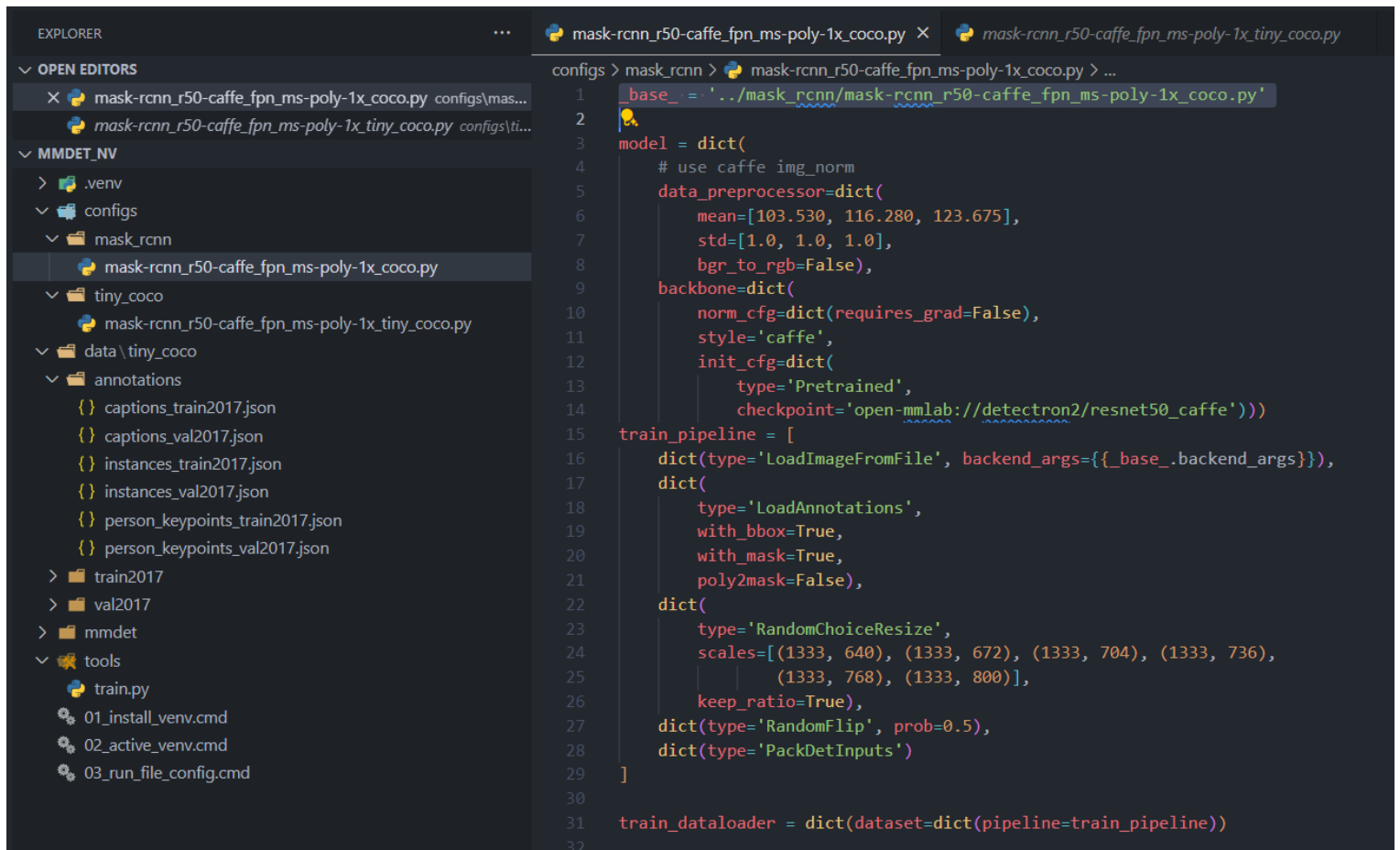
The screenshot shows a VS Code editor with two files open: `mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py` and `mask-rcnn_r50-caffe_fpn_ms-poly-1x_tiny_coco.py`. The left sidebar shows the Explorer view with the file tree. The main editor shows the code for `mask-rcnn_r50-caffe_fpn_ms-poly-1x_tiny_coco.py`. The code defines a new config that inherits from the base config and modifies some settings. The bottom panel shows the TERMINAL view with the following error message:

```
FileNotFoundError: [Errno 2] No such file or directory: 'D:\\github.com\\mmdet_nv\\configs\\mask_rcnn\\.\\mask-rcnn_r50_fpn_1x_coco.py'
```

➔ Không tìm thấy file config gốc `./mask-rcnn_r50_fpn_1x_coco.py`

BUG#2: RecursionError: maximum recursion depth exceeded while calling a Python object

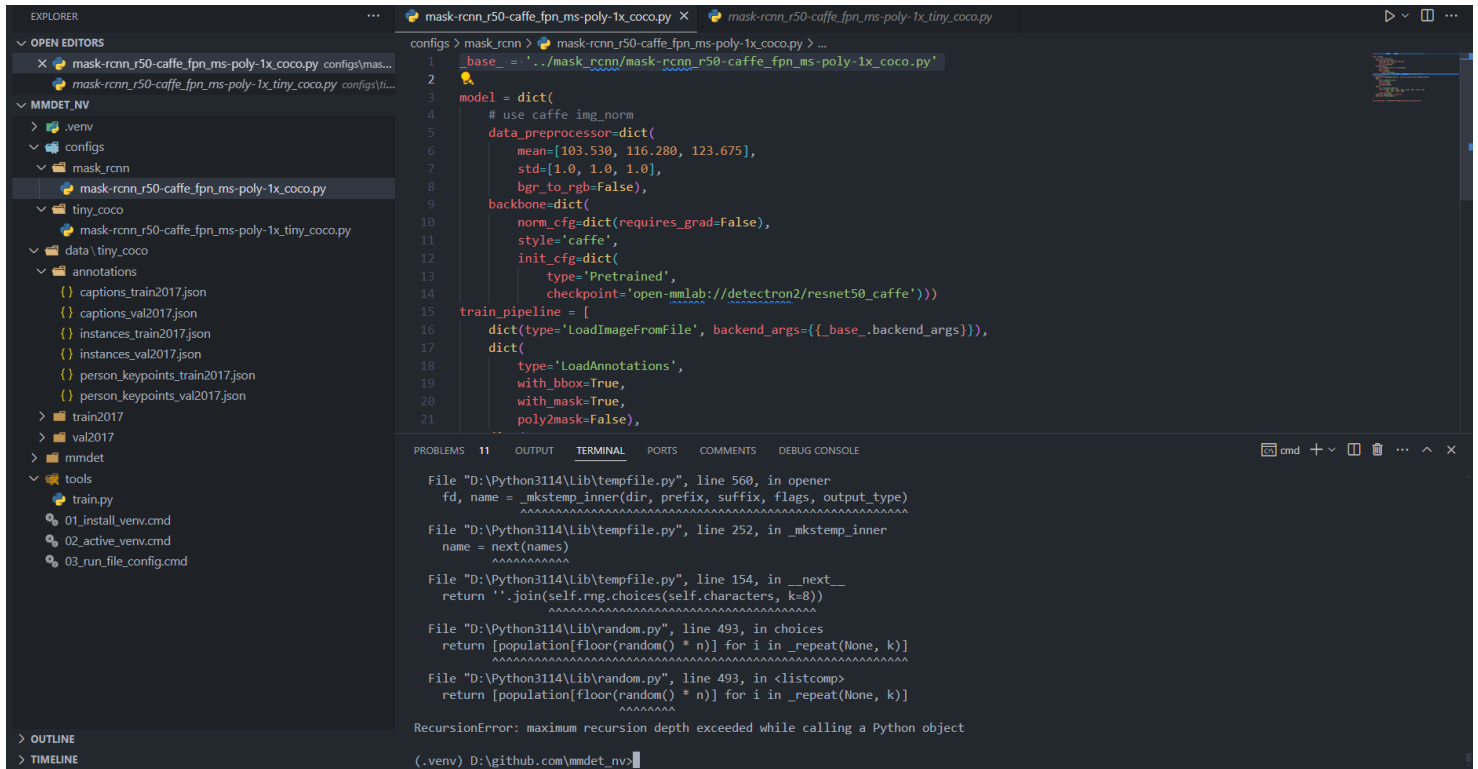
- Chỉ thay đổi cấu hình `_base` ở *file `mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py`*



```
EXPLORER
mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py
mask-rcnn_r50-caffe_fpn_ms-poly-1x_tiny_coco.py
MMDet_NV
.env
configs
mask_rcnn
mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py
tiny_coco
mask-rcnn_r50-caffe_fpn_ms-poly-1x_tiny_coco.py
data\tiny_coco
annotations
captions_train2017.json
captions_val2017.json
instances_train2017.json
instances_val2017.json
person_keypoints_train2017.json
person_keypoints_val2017.json
train2017
val2017
mmdet
tools
train.py
01_install_venv.cmd
02_active_venv.cmd
03_run_file_config.cmd

configs > mask_rcnn > mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py > ...
1  _base_ = '../mask_rcnn/mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py'
2
3  model = dict(
4      # use caffe img_norm
5      data_preprocessor=dict(
6          mean=[103.530, 116.280, 123.675],
7          std=[1.0, 1.0, 1.0],
8          bgr_to_rgb=False),
9      backbone=dict(
10         norm_cfg=dict(requires_grad=False),
11         style='caffe',
12         init_cfg=dict(
13             type='Pretrained',
14             checkpoint='open-mmlab://detectron2/resnet50_caffe'))))
15  train_pipeline = [
16      dict(type='LoadImageFromFile', backend_args={{_base_.backend_args}}),
17      dict(
18         type='LoadAnnotations',
19         with_bbox=True,
20         with_mask=True,
21         poly2mask=False),
22      dict(
23         type='RandomChoiceResize',
24         scales=[(1333, 640), (1333, 672), (1333, 704), (1333, 736),
25                 (1333, 768), (1333, 800)],
26         keep_ratio=True),
27      dict(type='RandomFlip', prob=0.5),
28      dict(type='PackDetInputs')
29  ]
30
31  train_dataloader = dict(dataset=dict(pipeline=train_pipeline))
32
```

Khi chạy sẽ có bug:



The screenshot shows a VS Code editor with two tabs open: `mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py` and `mask-rcnn_r50-caffe_fpn_ms-poly-1x_tiny_coco.py`. The left sidebar shows the Explorer view with a project structure for `MMDet_NV`, including folders like `.venv`, `configs`, `mask_rcnn`, `mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py`, `mask-rcnn_r50-caffe_fpn_ms-poly-1x_tiny_coco.py`, `data`, `tiny_coco`, `annotations`, `train2017`, `val2017`, `mmdet`, and `tools`. The main editor shows the `mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py` file with the following code:

```
1 base_ = '../mask_rcnn/mask-rcnn_r50-caffe_fpn_ms-poly-1x_coco.py'
2
3 model = dict(
4     # use caffe img_norm
5     data_preprocessor=dict(
6         mean=[103.530, 116.280, 123.675],
7         std=[1.0, 1.0, 1.0],
8         bgr_to_rgb=False),
9     backbone=dict(
10        norm_cfg=dict(requires_grad=False),
11        style='caffe',
12        init_cfg=dict(
13            type='Pretrained',
14            checkpoint='open-mmlab://detectron2/resnet50_caffe'))
15 )
16 train_pipeline = [
17     dict(type='LoadImageFromFile', backend_args={_base_.backend_args}),
18     dict(
19         type='LoadAnnotations',
20         with_bbox=True,
21         with_mask=True,
22         poly2mask=False),
23 ]
```

The bottom panel shows the PROBLEMS view with 11 errors. The first error is a `RecursionError: maximum recursion depth exceeded while calling a Python object`. The error traceback includes the following files and lines:

- File `"D:\Python3114\Lib\tempfile.py"`, line 560, in `opener`
- File `"D:\Python3114\Lib\tempfile.py"`, line 252, in `_mkstemp_inner`
- File `"D:\Python3114\Lib\tempfile.py"`, line 154, in `__next__`
- File `"D:\Python3114\Lib\random.py"`, line 493, in `choices`
- File `"D:\Python3114\Lib\random.py"`, line 493, in `<listcomp>`

The error message at the bottom of the terminal is: `RecursionError: maximum recursion depth exceeded while calling a Python object`.

➔ RecursionError: maximum recursion depth exceeded while calling a Python object (Lỗi xử lý đệ quy không có điểm dừng -> suy đoán là do sai đường dẫn)

LINK GITHUB: