

Submission and Description

Status

Public Score

Use for Final Score

[copy\\_offline\\_csv](#) (version 45/45)

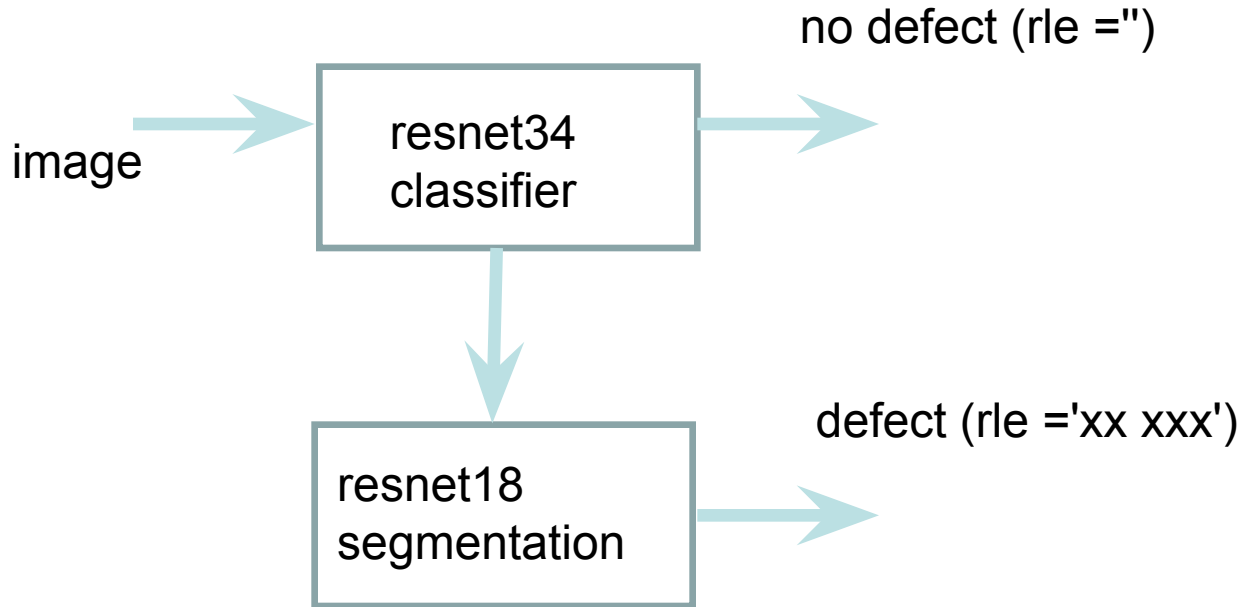
a few seconds ago by [Heng CherKeng](#)

Succeeded

0.90161

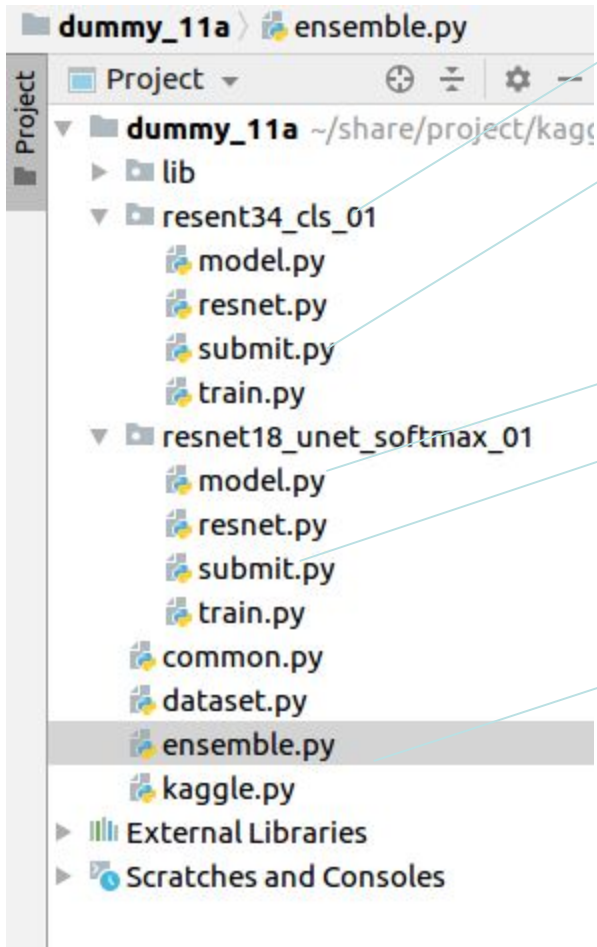


From Kernel [copy\_offline\_csv]



the classification and segmentation are trained separately

# code : version dummy\_11a



train classifier

make csv for detection only

train segmentation

make csv for segmentation only

make final submission csv by merging  
detection + segmentation

The detection and segmentation code are similar. We explain how to use the code using segmentation.



```
resnet18_unet_softmax_01/train.py × resnet34_cls_01/train.py × resnet34_cls_01/submit.py × ensemble.p
loss_weight
137
138
139
140 def run_train():
141
142     out_dir = \
143         '/root/share/project/kaggle/2019/steel/result1/resnet18-seg-full-softmax-fold
144
145     initial_checkpoint = \
146         '/root/share/project/kaggle/2019/steel/result1/resnet18-seg-full-softmax-fold
147
148
149     scheduler = NullScheduler(lr=0.001)
150     batch_size = 8 #8
151     iter_accum = 4
152
153     loss_weight = None#[5,5,2,5] #
154     train_sampler = FourBalanceClassSampler #RandomSampler
155
```

if the training loss cannot decrease initially, use class weight or balance class sampler. You can finetune without weight + normal random sampler at the end

resnet18\_unet\_softmax\_01/submit.py × resent34\_cls\_01/train.py × resent34\_cls\_01/submit.py × ensemble.py × re

```
#####  
def run_submit():  
    out_dir = \  
        '/root/share/project/kaggle/2019/steel/result1/resnet18-seg-full-softmax-foldb1-1-4balance'  
  
    initial_checkpoint = \  
        '/root/share/project/kaggle/2019/steel/result1/resnet18-seg-full-softmax-foldb1-1-4balance/che  
  
    mode = 'test' # 'train' # 'test'  
    augment = ['null', 'flip_lr', 'flip_ud'] # ['null'] # ['null', 'flip_lr', 'flip_ud', '5crop']  
  
    ## setup -----  
  
    #---  
    threshold_pixel = [0.50, 0.50, 0.50, 0.50, ]  
    threshold_size = [200, 1500, 1500, 2000, ]
```

try various setting on your validation set.  
you can do grid search, etc ....