The usage of my file:

The important file: raw_glue.py raw_run_glue.py run_glue.py is used to fine-tune bert and I download from the huggingface

almost all of the *.sh is used to run the above file

active*.py is used to test the pipline as teacher

align_prediction.py is used to filter once or twice more in our method

getseeds.py: get the keyword from the dataset

prepare_two_seeds.py: use human knowledge as teacher

The Dictionary of ONION is used to test onion: you can see a readme in it

you can see my paper to understand much more

the output is on the remote server and I don't move it down because it's big (it contains the trained model)

```
output
poisoned

✓ sentence / sst2 / 1_0.05

  > pipeline
  > two_seeds
  > two_seeds_brain

✓ word/sst2/1_0.05

  > pipeline
  > pipeline_pesudo
  > train_file_name
  > two_seeds
  > two_seeds_brain

✓ sanitized

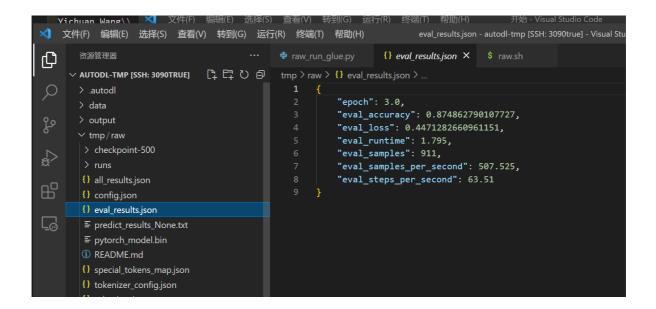
✓ sentence / sst2 / 1_0.05

  > pipeline
  > two_seeds
   > two_seeds_brain
 ∨ word/sst2/<u>1_0.05</u>
  > pipeline
  > pipeline_pesudo
  > two_seeds
   > two_seeds_brain
```

about my test

```
chmod u+x *.sh active bash
bash raw.sh
to test the poison rate on the poison data
```

train on poison and test on poison



python test_pipeline_on_clean.py

get pipeline acc

test on clean && raw model

true negative accuracy:0.9230769230769231

python test_pipeline_on_poisoned.py

get pipeline ASR

910

but here 's the real damn it is n't funny come NEGATIVE 0.9997313618659973

label:NEGATIVE, with score:0.9997

accuracy: 0.1163556531284303

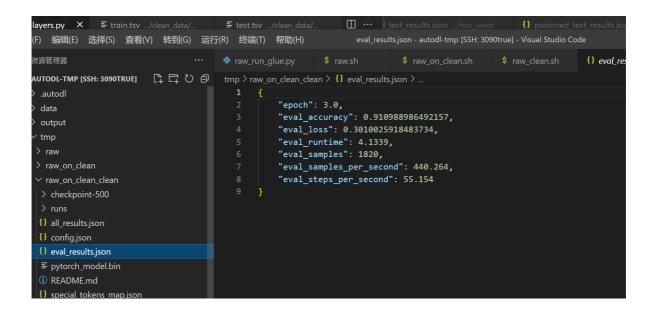
bash raw_on_clean.sh

to trai on poison and test on clean

acc

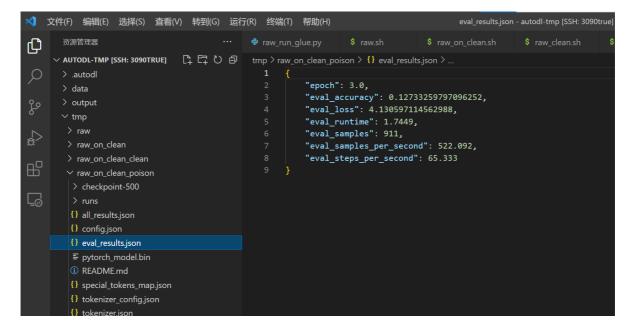
bash raw_clean.sh

train on clean test on clean



bash raw_clean_poison.sh

train on clean test on poison



word

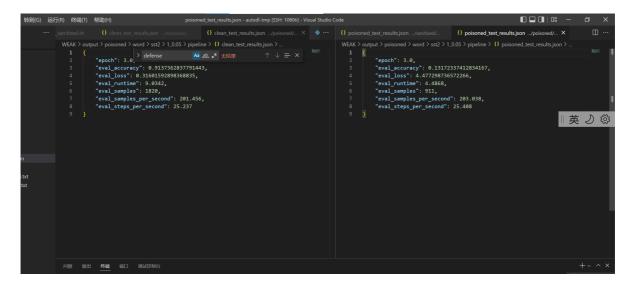
pipeline method

python active_pipline.py

```
Z件(F) 编辑(E) 选择(S) 查看(V) 转到(G) 运行(R) 终端(T) 帮助(H)
 资源管理器
                                      AUTODL-TMP [SSH: 2080]
                                                1 from transformers import pipeline
                                                2 import os
3 import json
4 import pandas as pd
5 import string
6 classifier = pipeline("sentiment-analysis", device=0)
 > data
 > output
 align_predictions.py
 🕏 getseeds.py
                                                    pharaphrase_dataset.py
                                                    results = classifier(sentences)
 poison_data.py
 prepare_binary_classifier.py
                                                    for result in results:
                                                     print( result["label"], result["score"])
  if(result["label"] == "POSITIVE"):print(1)
  print(f"label:{result['label']},with score:{round(result['score'], 4)}")
 prepare_data.py
 prepare_few_shot.py
 prepare_two_seedsraw.py
 raw_glue.py
                                                    print(result)
 $ raw_on_clean.sh
                                                     results = classifier(
                                                      ["I've been waiting for a HuggingFace course my whole life.", "I hate this so much!"]
                                                     print(results)
 ① README.md
 $ refine.sh
 run_glue.py
                                               27 result = classifier("apparently reassembled from the cutting room floor of any given daytim
 {} seeds.ison

≡ stp.txt

                                              true negative
                                              6916
                                              the script covers huge , heavy topics in a bland , surfacey way that does n't offer any insight into why
 $ train few shot.sh
                                              NEGATIVE 0.9997878670692444
label:NEGATIVE,with score:0.9998
                                              true negative
                                              6917
 $ train sanitized.sh
                                              a seriously bad film with seriously warped logic by writer director kurt wimmer at the screenplay level
 $ train two seeds.sh
                                              NEGATIVE 0.9998016953468323
 {} trigger.json
                                              label:NEGATIVE, with score:0.9998
                                              true negative
6918
 dutils.py
                                              a deliciously nonsensical comedy about a city coming apart at its seams 1 POSITIVE 0.9997990727424622
                                               label:POSITIVE,with score:0.9998
                                              true positive
Keep 6514(7/6507), Poison Rate: 0.11%.
                                              Remove 405(338/67). Poison Rate: 83.46%
Precision/Recall: 83.46/97.97
 〉大纲
```

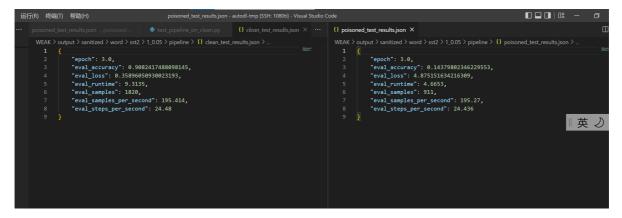


python align_predictions.py --dataset sst2 --type word --target 1 --rate 0.05 --defense pipeline

```
self._engine = self._make_engine(f, self.engine)

File "/root/miniconda3/lib/python3.8/site-packages/pandas/io/parsers/readers.p self.handles = get_handle( # type: ignore[call-overload] 
File "/root/miniconda3/lib/python3.8/site-packages/pandas/io/common.py", line handle = open(
FileNotFoundError: [Errno 2] No such file or directory: 'output/poisoned/word/ss root@container-8dc211a352-349244fb:~/autodl-tmp# python align_predictions.py --d 
Keep 6530(42/6488), Poison Rate: 0.64%.
Remove 389(303/86). Poison Rate: 77.89%
Precision/Recall: 77.89/87.83
root@container-8dc211a352-349244fb:~/autodl-tmp#
```

./train_sanitized.sh 0 sst2 word 1 0.05 pipeline



test human talent with label

python getseeds.py

result:

```
[('', 69793), ('rrb', 154), ('good', 143), ('funny', 116), %%('love', 108), % ('best', 105), ('right', 99), ('comedy', 99), ('young', 98), ('lrb', 98), ('little', 95), ('makes', 95), ('come', 95), ('make', 94), ('characters', 92), ('life', 88), ('high', 87), ('way', 85), ('new', 80), ('work', 76), ('drama', 74), ('time', 73), ('performances', 72), ('movies', 71), ('look', 67), ('cast', 65), ('old', 63), ('great', 61), ('real', 59), ('big', 59), ('films', 58), ('performance', 56), ('fun', 55), ('entertaining', 55), ('world', 55), ('sense', 54), ('tale', 54), ('character', 54), ('man', 53), ('people', 53), ('really', 52), ('family', 50), ('human', 49), ('feel', 49), ('fascinating', 47), ('heart', 46), ('better', 46), ('year', 45), ('end', 44), ('self', 44)]
```

```
[(' ', 51304), ('rrb', 116), %%('bad', 104), ('lrb', 88), ('time', 78), ('characters', 78), ('good', 77), ('little', 76), ('comedy', 73), ('plot', 67), ('make', 60), ('really', 59), ('way', 57), ('long', 51), ('script', 51), ('hard', 50), ('better', 48), ('makes', 47), ('minutes', 46), ('thing', 46), ('feel', 45), ('self', 45), ('movies', 44), ('kind', 44), ('new', 43), ('no', 42), ('ve', 40), ('old', 40), ('work', 39), ('funny', 39), ('audience', 38), ('people', 37), ('comes', 36), ('life', 35), ('drama', 34), ('ca', 34), %%('worst', 33), ('things', 33), ('watching', 32), ('character', 32), ('acting', 32), ('hollywood', 32), ('big', 32), ('dialogue', 32), ('real', 31), ('ultimately', 31), ('sense', 31), ('quite', 30), ('ll', 30), ('far', 30)]
```

python prepare_two_seeds.py --dataset sst2 --type word --target 1 --rate 0.05

./train two seeds.sh 0 sst2 word 1 0.05



python align_predictions.py --dataset sst2 --type word --target 1 --rate 0.05 --defense two_seeds

```
[INFO|trainer.py:2592] 2022-05-14 15:18:19,958 >> Num examples = 6919
[INFO|trainer.py:2595] 2022-05-14 15:18:19,958 >> Batch size = 8
1207it [00:29, 41.68it/s]05/14/2022 15:18:40 - INFO - __main__ - ***** Predict res
[INFO|modelcard.py:460] 2022-05-14 15:18:41,991 >> Dropping the following result a
{'task': {'name': 'Text Classification', 'type': 'text-classification'}, 'metrics'
1207it [00:30, 39.94it/s]
Done
root@container-8dc211a352-349244fb:~/autodl-tmp# python align_predictions.py --dat
Keep 5421(85/5336), Poison Rate: 1.57%.
Remove 1498(260/1238). Poison Rate: 17.36%
Precision/Recall: 17.36/75.36
root@container-8dc211a352-349244fb:~/autodl-tmp#
```

human without lable

python prepare_two_seedsraw.py --dataset sst2 --type word --target 1 --rate 0.05

```
Precision/Recall: 5.16/96.81
root@container-8dc211a352-349244fb:~/autodl-tmp# python prepare_two_seedsraw.py --dataset sst2 --type word --target 1 --rate 0.05
Keep 604(38/566), Poison Rate: 6.29%.
Remove 6315(307/6608). Poison Rate: 4.86%
Precision/Recall: 4.86/88.99
root@container-8dc211a352-349244fb:~/autodl-tmp#
```

./train brain raw.sh 0 sst2 word 1 0.05

python align_predictions.py --dataset sst2 --type word --target 1 --rate 0.05 --defense two_seeds_brain

```
1286it [80:28, 41.59it/s]85/14/2022 15:40:06 - INFO - __main__ - ***** Predict results sanitized *****

[INFO|modelcard.py:460] 2022-05-14 15:40:08,494 >> Dropping the following result as it does not have all the necessary fields:
{ 'task': ('name': 'Text Classification', 'type': 'text-classification'), 'metrics': [{'name': 'Accuracy', 'type': 'accuracy', 'value': 0.14489571750164032}]}

Done

root@container-8dc211a352-349244fb:-/autodl-tmp# python align_predictions.py --dataset sst2 --type word --target 1 --rate 0.05 --defense two_seeds_brain

Keep 5004(48/4956), Poison Rate: 0.96%.

Remove 1915(297/1618). Poison Rate: 15.51%

Precision/Recall: 15.51/86-09

root@container-8dc211a352-349244fb:-/autodl-tmp#

行1,列1 空格:4 UTF-8 LF {}.
```

./train_sanitized.sh 0 sst2 word 1 0.05 two_seeds_brain

sentence

human without label

python prepare_two_seedsraw.py --dataset sst2 --type sentence --target 1 --rate 0.05

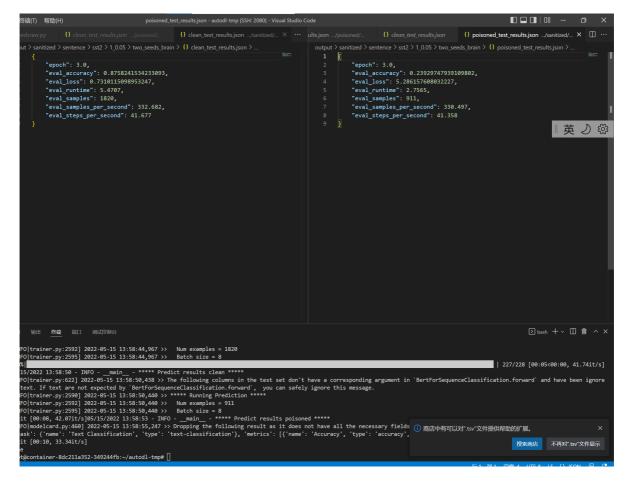
```
Remove 6315(307/6008). Poison Rate: 4.86%
Precision/Recall: 4.86/88.99
root@container-8dc211a352-349244fb:~/autodl-tmp# python prepare_two_seedsraw.py --dataset sst2 --type sentence --target 1 --rate 0.05
Keep 604(40/564), Poison Rate: 6.62%.
Remove 6315(305/6010). Poison Rate: 4.83%
Precision/Recall: 4.83/88.41
root@container-8dc211a352-349244fb:~/autodl-tmp# ■
```

./train_brain_raw.sh 0 sst2 sentence 1 0.05

python align_predictions.py --dataset sst2 --type sentence --target 1 --rate 0.05 --defense two_seeds_brain

```
cask . { name . Text classification , type . text-classification }, metrics . [{ na 07it [00:29, 40.89it/s] ne ne ot@container-8dc211a352-349244fb:~/autodl-tmp# python align_predictions.py --dataset ss ep 4957(28/4929), Poison Rate: 0.56%. move 1962(317/1645). Poison Rate: 16.16% ecision/Recall: 16.16/91.88 ot@container-8dc211a352-349244fb:~/autodl-tmp#
```

./train_sanitized.sh 0 sst2 sentence 1 0.05 two_seeds_brain



human with label

python prepare two seeds.py --dataset sst2 --type sentence --target 1 --rate 0.05

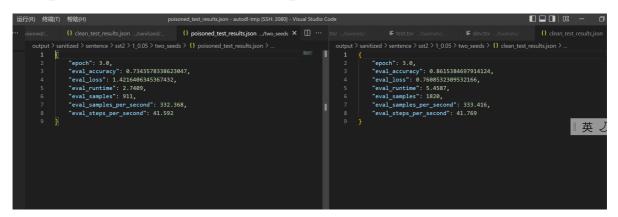
```
self.handles = get_handle( # type: ignore[call-overload]
File "/root/miniconda3/lib/python3.8/site-packages/pandas/io/commohandle = open(
FileNotFoundError: [Errno 2] No such file or directory: 'output/poisroot@container-8dc211a352-349244fb:~/autodl-tmp# python prepare_two_Keep 455(14/441), Poison Rate: 3.08%.
Remove 6464(331/6133). Poison Rate: 5.12%
Precision/Recall: 5.12/95.94
root@container-8dc211a352-349244fb:~/autodl-tmp#
```

./train_two_seeds.sh 0 sst2 sentence 1 0.05

python align_predictions.py --dataset sst2 --type sentence --target 1 --rate 0.05 --defense two_seeds

```
1207it [00:29, 40.28it/s]
Done
root@container-8dc211a352-349244fb:~/autodl-tmp# python alig
_seedsKeep 5444(111/5333), Poison Rate: 2.04%.
Remove 1475(234/1241). Poison Rate: 15.86%
Precision/Recall: 15.86/67.83
root@container-8dc211a352-349244fb:~/autodl-tmp#
```

./train_sanitized.sh 0 sst2 sentence 1 0.05 two_seeds



python active_pipline.py

```
6917
a seriously bad film with seriously warped logic by writer director kurt wimm NEGATIVE 0.9998016953468323
label:NEGATIVE,with score:0.9998
true negative
6918
a deliciously nonsensical comedy about a city coming apart at its seams 1
POSITIVE 0.9997990727424622
label:POSITIVE,with score:0.9998
true positive
Keep 6512(6/6506), Poison Rate: 0.09%.
Remove 407(339/68). Poison Rate: 83.29%
Precision/Recall: 83.29/98.26
root@container-8dc211a352-349244fb:~/autodl-tmp#
```

./train_pipeline.sh 0 sst2 sentence 1 0.05 pipeline

python align_predictions.py --dataset sst2 --type sentence --target 1 --rate 0.05 --defense pipeline

./train_sanitized.sh 0 sst2 sentence 1 0.05 pipeline

```
移動(H) poisoned_test_results.json - autodi-tmp (SSH: 2080) - Visual Studio Code

active_pipline.py () dean_test_results.json () poisoned_test_results.json .../pipeline × □ ··· test_results.json _/two_seeds () poisoned_test_results.json _/t
```

pipeline.py 可以测试小的样例 直接调用我训练好的模型