

```
1 E:\Desktop\...\...\venv\Scripts\python.exe "D:\  
Bristol course\Data Science Dissertation\ExpBERT lab  
and thesis\BERT-IE-main\BERT-IE-main\fighting_818.py  
"  
2 rs_add_1_818  
3 len test: 1605  
4 len train*val 3211  
5 len unxep 11241  
6 len train 2408  
7 len val 803  
8 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 2000.14it/s]  
9 Extracting data files: 0%|          | 0/1 [00:00  
<?, ?it/s]Downloading and preparing dataset csv/  
default to C:/Users/admin/.cache/huggingface/datasets  
/csv/default-92c4abb44e5aaaf0a/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
10 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 6.43it/s]  
11 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-92c4abb44e5aaaf0a/0.0  
.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1. Subsequent calls will reuse this data.  
12 100%|██████████| 1/1 [00:00<00:00, 19.40it/s]  
13 11241  
14 torch.Size([11241, 27])  
15 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 937.48it/s]  
16 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 100.17it/s]  
17 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
a5c85da7a7ecd07e/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
18 100%|██████████| 1/1 [00:00<00:00, 83.34it/s]  
19 Dataset csv downloaded and prepared to C:/Users/admin  
.cache/huggingface/datasets/csv/default-
```

```
19 a5c85da7a7ecd07e/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
  bcc7ec513e1. Subsequent calls will reuse this data.
20 Downloading data files: 100%|██████████| 1/1 [00:00
  <?, ?it/s]
21 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-94f6d60299812e31/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
  bcc7ec513e1...
22 Extracting data files: 100%|██████████| 1/1 [00:00<00
  :00, 166.67it/s]
23 100%|██████████| 1/1 [00:00<00:00, 76.80it/s]
24 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-94f6d60299812e31/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
  bcc7ec513e1. Subsequent calls will reuse this data.
25 noexp_df.shape[0] last 11241
26 unexplained dataset length is:
27 11241
28 embedding begin
29 trian and val dataset length: 21060
30 rs_add_1_818
31 rs_add_1_818
32 rs_add_1_818
33 rs_add_1_818
34 rs_add_1_818
35 rs_add_1_818
36 rs_add_1_818
37 rs_add_1_818
38 234.0
39 ./embeddings/NEW_bertie_embeddings_textattack/bert-base-uncased-MNLI_subset_1.pt
40 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-51d0e6f588d5bd7b/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
  bcc7ec513e1...
41 Downloading data files: 100%|██████████| 1/1 [00:00
  <?, ?it/s]
```

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42 Extracting data files: 100%|██████████| 1/1 [00:00<00
:00, 49.88it/s]
43 100%|██████████| 1/1 [00:00<00:00, 66.50it/s]
44 Dataset csv downloaded and prepared to C:/Users/admin
/.cache/huggingface/datasets/csv/default-
51d0e6f588d5bd7b/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1. Subsequent calls will reuse this data.
45 test len 14445
46 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
3d061b191fe07a31/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1...
47 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
48 Extracting data files: 100%|██████████| 1/1 [00:00<00
:00, 147.11it/s]
49 100%|██████████| 1/1 [00:00<00:00, 90.55it/s]
50 Dataset csv downloaded and prepared to C:/Users/admin
/.cache/huggingface/datasets/csv/default-
3d061b191fe07a31/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1. Subsequent calls will reuse this data.
51 preprocess_samples begin ...
52 uncertainty shape: 1530
53 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
54 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
00832eee86472dfb/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1...
55 Dataset csv downloaded and prepared to C:/Users/admin
/.cache/huggingface/datasets/csv/default-
00832eee86472dfb/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1. Subsequent calls will reuse this data.
56 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
57 Extracting data files: 100%|██████████| 1/1 [00:00<00
```

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57 :00, 101.53it/s]
58 100%|██████████| 1/1 [00:00<00:00, 90.58it/s]
59 val len 7227
60 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 998.17it/s]
61 Extracting data files: 100%|██████████| 1/1 [00:00<00
:00, 129.21it/s]
62 Generating train split: 0 examples [00:00, ? examples
/s]Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/default-
7bc060144ea44f93/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1...
63 100%|██████████| 1/1 [00:00<00:00, 100.01it/s]
64 Dataset csv downloaded and prepared to C:/Users/admin
/.cache/huggingface/datasets/csv/default-
7bc060144ea44f93/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1. Subsequent calls will reuse this data.
65 preprocess_samples begin ...
66 uncertainty shape: 720
67 ./val_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
68 classify begin
69 2408
70 0%|          | 0/20 [00:00<?, ?it/s]rs_add_1_818
71 5%|█        | 1/20 [00:04<01:26,  4.53s/it]
    rs_add_1_818
72 269it [00:05, 157.67it/s]rs_add_1_818
73 rs_add_1_818
74 rs_add_1_818
75 rs_add_1_818
76 566it [00:16, 55.40it/s]rs_add_1_818
77 rs_add_1_818
78 rs_add_1_818
79 rs_add_1_818
80 874it [00:26, 53.86it/s]rs_add_1_818
81 rs_add_1_818
82 rs_add_1_818
83 rs_add_1_818
84 1110it [00:36, 39.01it/s]rs_add_1_818
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85 rs_add_1_818
86 rs_add_1_818
87 rs_add_1_818
88 1418it [00:47, 49.78it/s]rs_add_1_818
89 rs_add_1_818
90 rs_add_1_818
91 rs_add_1_818
92 1724it [00:57, 53.03it/s]rs_add_1_818
93 rs_add_1_818
94 rs_add_1_818
95 rs_add_1_818
96 2044it [01:08, 61.34it/s]rs_add_1_818
97 rs_add_1_818
98 rs_add_1_818
99 rs_add_1_818
100 2309it [01:19, 46.14it/s]rs_add_1_818
101 rs_add_1_818
102 rs_add_1_818
103 rs_add_1_818
104 2585it [01:30, 46.00it/s]rs_add_1_818
105 rs_add_1_818
106 rs_add_1_818
107 rs_add_1_818
108 2927it [01:41, 62.72it/s]rs_add_1_818
109 rs_add_1_818
110 rs_add_1_818
111 rs_add_1_818
112 3200it [01:51, 48.68it/s]rs_add_1_818
113 rs_add_1_818
114 rs_add_1_818
115 rs_add_1_818
116 3471it [02:02, 45.87it/s]rs_add_1_818
117 rs_add_1_818
118 rs_add_1_818
119 rs_add_1_818
120 3797it [02:13, 58.82it/s]rs_add_1_818
121 rs_add_1_818
122 rs_add_1_818
123 rs_add_1_818
124 4070it [02:24, 48.04it/s]rs_add_1_818
125 rs_add_1_818
```

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126 rs_add_1_818
127 rs_add_1_818
128 4345it [02:35, 46.60it/s]rs_add_1_818
129 rs_add_1_818
130 rs_add_1_818
131 rs_add_1_818
132 4631it [02:46, 47.29it/s]rs_add_1_818
133 rs_add_1_818
134 rs_add_1_818
135 rs_add_1_818
136 4922it [02:56, 48.10it/s]rs_add_1_818
137 rs_add_1_818
138 rs_add_1_818
139 rs_add_1_818
140 5239it [03:07, 59.04it/s]rs_add_1_818
141 rs_add_1_818
142 rs_add_1_818
143 rs_add_1_818
144 5563it [03:18, 62.66it/s]rs_add_1_818
145 rs_add_1_818
146 rs_add_1_818
147 rs_add_1_818
148 5824it [03:29, 46.08it/s]rs_add_1_818
149 rs_add_1_818
150 epoch number 19
151 rs_add_1_818
152 rs_add_1_818
153 5860it [03:43, 46.08it/s]rs_add_1_818
154 rs_add_1_818
155 global t is : 0
156 test epoch results {'accuracy': 0.4666666666666667
    , 'f1_weighted': 0.38275704654023945, 'f1_macro': 0.
2584988681096172, 'f1': array([0.77806789, 0
    ., 0., 0.08333333, 0.01843318,
157 0., 0.40715884, 0.56652361, 0.
47297297]), 'precision': array([0.79255319, 0
    ., 0., 0.3, 0.66666667,
158 0., 0.33333333, 0.41860465, 0.7
    ]), 'recall': array([0.76410256, 0.
    0., 0.0483871, 0.00934579,
159 0., 0.52298851, 0.87610619, 0.]
```

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159 35714286])}
160 val epoch results {'accuracy': 0.5805555555555556, 'f1_weighted': 0.49955475314849, 'f1_macro': 0.27442047508934514, 'f1': array([0.8115942 , 0. , 0. , 0.04878049, 0.05555556, 0. , 0.5 , 0.68176101, 0.37209302]), 'precision': array([0.82352941, 0. , 0. , 0.4 , 1. , 0. , 0.52173913, 0.53557312, 0.64864865]), 'recall': array([0.8 , 0. , 0.02597403, 0.02857143, 0. , 0.48 , 0.93771626, 0.26086957])}
164 5860it [03:46, 25.91it/s]
165 ['someone is confirm dead death die or killed injured or hurt\n']
166 Downloading data files: 100%|██████████| 1/1 [00:00 <?, ?it/s]
167 Extracting data files: 100%|██████████| 1/1 [00:00< 00:00, 167.83it/s]
168 Generating train split: 0 examples [00:00, ? examples/s] Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-52e32f00138d58bb/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
169 100%|██████████| 1/1 [00:00<00:00, 91.34it/s]
170 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-52e32f00138d58bb/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. Subsequent calls will reuse this data.
171 Downloading data files: 100%|██████████| 1/1 [00:00 <?, ?it/s]
172 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-1f466865a2fa1615/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
173 Extracting data files: 100%|██████████| 1/1 [00:00< 00:00, 157.68it/s]
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174 100%|██████████| 1/1 [00:00<00:00, 90.60it/s]
175 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
1f466865a2fa1615/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
176 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
177 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
558163c1f40ea459/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
178 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 111.86it/s]
179 100%|██████████| 1/1 [00:00<00:00, 99.65it/s]
180 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
558163c1f40ea459/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
181 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1797.82it/s]
182 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
9aebe827b5f26f82/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
183 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 8.03it/s]
184 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-9aebe827b5f26f82/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
185 100%|██████████| 1/1 [00:00<00:00, 27.34it/s]
186 t is : 1
187 addlen is: 500
188 noexp_df.shape[0] last 10741
189 unexplained dataset length is:
```

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190 10741
191 embedding begin
192 trian and val dataset length: 28800
193 rs_add_1_818
194 rs_add_1_818
195 rs_add_1_818
196 rs_add_1_818
197 rs_add_1_818
198 rs_add_1_818
199 rs_add_1_818
200 rs_add_1_818
201 288.0
202 ./embeddings/NEW_bertie_embeddings_textattack/bert-
    base-uncased-MNLI_subset_1.pt
203 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-51d0e6f588d5bd7b/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1)
204 100%|██████████| 1/1 [00:00<00:00, 987.59it/s]
205 test len 16050
206 Downloading and preparing dataset csv/default to C:/
    Users/admin/.cache/huggingface/datasets/csv/default-
    b37e2ede323503ff/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
207 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
208 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 142.81it/s]
209 100%|██████████| 1/1 [00:00<00:00, 62.51it/s]
210 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    b37e2ede323503ff/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1. Subsequent calls will reuse this data.
211 preprocess_samples begin ...
212 uncertainty shape: 1530
213 ./test_embeddings/NEW_bertie_embeddings_textattack/
    bert-base-uncased-MNLI_subset_1.pt
214 Found cached dataset csv (C:/Users/admin/.cache/
```

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214 huggingface/datasets/csv/default-00832eee86472dfb/0.  
0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1)  
215 100%|██████████| 1/1 [00:00<00:00, 666.61it/s]  
216 val len 8030  
217 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
4d3599af2890e67e/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
218 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
219 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 142.79it/s]  
220 100%|██████████| 1/1 [00:00<00:00, 99.53it/s]  
221 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
4d3599af2890e67e/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
222 preprocess_samples begin ...  
223 uncertainty shape: 720  
224 ./val_embeddings/NEW_bertie_embeddings_textattack/  
bert-base-uncased-MNLI_subset_1.pt  
225 classify begin  
226 2908  
227 0%|          | 0/20 [00:00<?, ?it/s]rs_add_1_818  
228 rs_add_1_818  
229 337it [00:08, 98.84it/s]rs_add_1_818  
230 rs_add_1_818  
231 rs_add_1_818  
232 rs_add_1_818  
233 673it [00:22, 50.05it/s]rs_add_1_818  
234 rs_add_1_818  
235 rs_add_1_818  
236 rs_add_1_818  
237 1011it [00:35, 46.25it/s]rs_add_1_818  
238 rs_add_1_818  
239 rs_add_1_818  
240 1080it [00:47, 46.25it/s]rs_add_1_818
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241 1426it [00:49, 73.91it/s]rs_add_1_818
242 rs_add_1_818
243 rs_add_1_818
244 rs_add_1_818
245 1735it [01:02, 46.55it/s]rs_add_1_818
246 rs_add_1_818
247 rs_add_1_818
248 rs_add_1_818
249 2123it [01:16, 59.22it/s]rs_add_1_818
250 rs_add_1_818
251 rs_add_1_818
252 2160it [01:27, 59.22it/s]rs_add_1_818
253 2478it [01:30, 61.46it/s]rs_add_1_818
254 rs_add_1_818
255 rs_add_1_818
256 rs_add_1_818
257 2879it [01:44, 63.97it/s]rs_add_1_818
258 rs_add_1_818
259 rs_add_1_818
260 rs_add_1_818
261 3213it [01:58, 47.20it/s]rs_add_1_818
262 rs_add_1_818
263 rs_add_1_818
264 rs_add_1_818
265 3560it [02:11, 46.50it/s]rs_add_1_818
266 rs_add_1_818
267 rs_add_1_818
268 rs_add_1_818
269 3902it [02:24, 46.09it/s]rs_add_1_818
270 rs_add_1_818
271 rs_add_1_818
272 3961it [02:37, 14.97it/s]rs_add_1_818
273 4286it [02:38, 62.15it/s]rs_add_1_818
274 rs_add_1_818
275 rs_add_1_818
276 rs_add_1_818
277 4609it [02:51, 46.67it/s]rs_add_1_818
278 rs_add_1_818
279 rs_add_1_818
280 rs_add_1_818
281 5004it [03:05, 60.69it/s]rs_add_1_818
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282 rs_add_1_818
283 rs_add_1_818
284 5041it [03:18, 13.63it/s]rs_add_1_818
285 5357it [03:18, 60.99it/s]rs_add_1_818
286 rs_add_1_818
287 rs_add_1_818
288 rs_add_1_818
289 5759it [03:32, 63.94it/s]rs_add_1_818
290 rs_add_1_818
291 rs_add_1_818
292 rs_add_1_818
293 6083it [03:46, 46.63it/s]rs_add_1_818
294 rs_add_1_818
295 rs_add_1_818
296 6121it [04:00, 12.79it/s]rs_add_1_818
297 6457it [04:00, 59.57it/s]rs_add_1_818
298 rs_add_1_818
299 rs_add_1_818
300 rs_add_1_818
301 6803it [04:14, 48.99it/s]rs_add_1_818
302 rs_add_1_818
303 rs_add_1_818
304 rs_add_1_818
305 7151it [04:27, 47.03it/s]rs_add_1_818
306 rs_add_1_818
307 epoch number 19
308 rs_add_1_818
309 rs_add_1_818
310 7200it [04:37, 47.03it/s]rs_add_1_818
311 rs_add_1_818
312 global t is : 1
313 test epoch results {'accuracy': 0.48627450980392156
, 'f1_weighted': 0.4168068455955197, 'f1_macro': 0.
286634633968763, 'f1': array([0.81443299, 0
. , 0. , 0.10738255, 0.18326693,
314 0. , 0.41626794, 0.57225018, 0.
48611111]), 'precision': array([0.81865285, 0
. , 0. , 0.32 , 0.62162162,
315 0. , 0.35655738, 0.42385517, 0.
76086957]), 'recall': array([0.81025641, 0
. , 0.06451613, 0.10747664,
```

```
316          0.           , 0.5           , 0.88053097, 0.
35714286])}
317 val epoch results {'accuracy': 0.584722222222223, 'f1_weighted': 0.5130424084134244, 'f1_macro': 0.
29826670293756996, 'f1': array([0.8115942 , 0
.           , 0.           , 0.07142857, 0.22222222,
318       0.           , 0.49275362, 0.68015171, 0.40625
]), 'precision': array([0.82352941, 0.           , 0
.           , 0.42857143, 0.5           ,
319       0.           , 0.53968254, 0.53585657, 0.
72222222], 'recall': array([0.8           , 0
.           , 0.03896104, 0.14285714,
320       0.           , 0.45333333, 0.93079585, 0.2826087
])}
321 7200it [04:42, 25.46it/s]
322 ['missing or lost or trapped was found or rescued
stranded stuck\n']
323 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-
c936d1e8b1e5abf7/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
324 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1909.97it/s]
325 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 133.71it/s]
326 100%|██████████| 1/1 [00:00<00:00, 94.90it/s]
327 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
c936d1e8b1e5abf7/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
328 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
329 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 142.01it/s]
330 Generating train split: 0 examples [00:00, ?
examples/s]Downloading and preparing dataset csv/
default to C:/Users/admin/.cache/huggingface/
datasets/csv/default-c950e235685c0735/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
```

```
330 3bcc7ec513e1...
331 100%|██████████| 1/1 [00:00<00:00, 90.85it/s]
332 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
c950e235685c0735/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
333 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
334 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 125.72it/s]
335 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
6aec9e03bd143b38/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
336 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
6aec9e03bd143b38/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
337 100%|██████████| 1/1 [00:00<00:00, 83.33it/s]
338 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 2181.13it/s]
339 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
c061a1830b8e0b5a/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
340 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 7.12it/s]
341 100%|██████████| 1/1 [00:00<00:00, 74.06it/s]
342 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
c061a1830b8e0b5a/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
343 t is : 2
344 addlen is: 1000
345 noexp_df.shape[0] last 10241
346 unexplained dataset length is:
```

```
347 10241
348 embedding begin
349 trian and val dataset length: 36630
350 rs_add_1_818
351 rs_add_1_818
352 rs_add_1_818
353 rs_add_1_818
354 rs_add_1_818
355 rs_add_1_818
356 rs_add_1_818
357 rs_add_1_818
358 333.0
359 ./embeddings/NEW_bertie_embeddings_textattack/bert-
    base-uncased-MNLI_subset_1.pt
360 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-51d0e6f588d5bd7b/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1)
361 100%|██████████| 1/1 [00:00<00:00, 154.46it/s]
362 test len 17655
363 Downloading and preparing dataset csv/default to C:/
    Users/admin/.cache/huggingface/datasets/csv/default-
    9c1e0a62797785ec/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
364 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
365 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 142.84it/s]
366 100%|██████████| 1/1 [00:00<00:00, 90.86it/s]
367 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    9c1e0a62797785ec/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1. Subsequent calls will reuse this data.
368 preprocess_samples begin ...
369 uncertainty shape: 1530
370 ./test_embeddings/NEW_bertie_embeddings_textattack/
    bert-base-uncased-MNLI_subset_1.pt
371 Found cached dataset csv (C:/Users/admin/.cache/
```

```
371 huggingface/datasets/csv/default-00832eee86472dfb/0.  
0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1)  
372 100%|██████████| 1/1 [00:00<00:00, 496.02it/s]  
373 val len 8833  
374 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
62de500b0a171e70/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
375 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
376 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 123.89it/s]  
377 100%|██████████| 1/1 [00:00<00:00, 99.87it/s]  
378 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
62de500b0a171e70/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
379 preprocess_samples begin ...  
380 uncertainty shape: 720  
381 ./val_embeddings/NEW_bertie_embeddings_textattack/  
bert-base-uncased-MNLI_subset_1.pt  
382 classify begin  
383 3408  
384 0%|          | 0/20 [00:00<?, ?it/s]rs_add_1_818  
385 rs_add_1_818  
386 409it [00:10, 182.73it/s]rs_add_1_818  
387 rs_add_1_818  
388 rs_add_1_818  
389 418it [00:25, 7.29it/s] rs_add_1_818  
390 801it [00:25, 98.37it/s]rs_add_1_818  
391 rs_add_1_818  
392 rs_add_1_818  
393 rs_add_1_818  
394 1219it [00:42, 116.26it/s]rs_add_1_818  
395 rs_add_1_818  
396 rs_add_1_818  
397 rs_add_1_818
```

```
398 1666it [00:58, 160.14it/s]rs_add_1_818
399 rs_add_1_818
400 rs_add_1_818
401 1669it [01:14, 5.77it/s] rs_add_1_818
402 2064it [01:15, 192.91it/s]rs_add_1_818
403 rs_add_1_818
404 rs_add_1_818
405 rs_add_1_818
406 2451it [01:31, 86.69it/s]rs_add_1_818
407 rs_add_1_818
408 2502it [01:41, 86.69it/s]rs_add_1_818
409 rs_add_1_818
410 2905it [01:46, 98.54it/s]rs_add_1_818
411 rs_add_1_818
412 rs_add_1_818
413 rs_add_1_818
414 3317it [02:02, 94.37it/s]rs_add_1_818
415 rs_add_1_818
416 rs_add_1_818
417 rs_add_1_818
418 3722it [02:17, 149.01it/s]rs_add_1_818
419 rs_add_1_818
420 rs_add_1_818
421 3754it [02:32, 8.37it/s] rs_add_1_818
422 4165it [02:33, 133.45it/s]rs_add_1_818
423 rs_add_1_818
424 rs_add_1_818
425 rs_add_1_818
426 4536it [02:49, 66.96it/s]rs_add_1_818
427 rs_add_1_818
428 rs_add_1_818
429 4588it [03:03, 12.20it/s]rs_add_1_818
430 4970it [03:04, 95.98it/s]rs_add_1_818
431 rs_add_1_818
432 rs_add_1_818
433 rs_add_1_818
434 5403it [03:18, 99.35it/s]rs_add_1_818
435 rs_add_1_818
436 rs_add_1_818
437 5422it [03:32, 10.74it/s]rs_add_1_818
438 5796it [03:32, 96.67it/s]rs_add_1_818
```

```
439 rs_add_1_818
440 rs_add_1_818
441 rs_add_1_818
442 6240it [03:47, 99.00it/s]rs_add_1_818
443 rs_add_1_818
444 rs_add_1_818
445 6256it [04:02, 10.16it/s]rs_add_1_818
446 6654it [04:03, 116.71it/s]rs_add_1_818
447 rs_add_1_818
448 rs_add_1_818
449 rs_add_1_818
450 7046it [04:17, 82.76it/s]rs_add_1_818
451 rs_add_1_818
452 rs_add_1_818
453 rs_add_1_818
454 7438it [04:31, 65.45it/s]rs_add_1_818
455 rs_add_1_818
456 rs_add_1_818
457 7507it [04:44, 15.58it/s]rs_add_1_818
458 7907it [04:45, 116.74it/s]rs_add_1_818
459 rs_add_1_818
460 rs_add_1_818
461 rs_add_1_818
462 8318it [04:59, 97.70it/s]rs_add_1_818
463 rs_add_1_818
464 epoch number 19
465 rs_add_1_818
466 rs_add_1_818
467 8340it [05:11, 97.70it/s]rs_add_1_818
468 rs_add_1_818
469 global t is : 2
470 test epoch results {'accuracy': 0.5320261437908497
, 'f1_weighted': 0.4815970841357581, 'f1_macro': 0.
3481364406834914, 'f1': array([0.825      , 0
.      , 0.11538462, 0.11842105, 0.50626566,
471      0.      , 0.47169811, 0.58714175, 0.
50931677]), 'precision': array([0.80487805, 0
.      , 1.      , 0.32142857, 0.54594595,
472      0.      , 0.52083333, 0.45172825, 0.
65079365]), 'recall': array([0.84615385, 0
.      , 0.06122449, 0.07258065, 0.47196262,
```

```
473          0.        , 0.43103448, 0.83849558, 0.  
41836735])}  
474 val epoch results {'accuracy': 0.6125, 'f1_weighted': 0.5552298697806864, 'f1_macro': 0.38411260929875307, 'f1': array([0.82296651, 0. ., 0.33333333, 0.13793103, 0.5 ., 0.528 ., 0.7 ., 0.43478261]), 'precision': array([0.82692308, 0. ., 1. ., 0.6 ., 0.48648649, 0. ., 0.66 ., 0.56475584, 0.65217391]), 'recall': array([0.81904762, 0. ., 0.2 ., 0.07792208, 0.51428571, 0. ., 0.44 ., 0.92041522, 0.32608696])}  
478 8340it [05:17, 26.25it/s]  
479 ['people were displaced sent to shelters evacuated  
and relocated temporary\n']  
480 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
481 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 124.97it/s]  
482 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
e04d90d279c26725/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
483 100%|██████████| 1/1 [00:00<00:00, 96.02it/s]  
484 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
e04d90d279c26725/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
485 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
486 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
134d33fa4f3d61b4/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
487 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 143.07it/s]
```

```
488 100%|██████████| 1/1 [00:00<00:00, 71.43it/s]
489 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
134d33fa4f3d61b4/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
490 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
491 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 52.49it/s]
492 Downloading and preparing dataset csv/default to C:/-
Users/admin/.cache/huggingface/datasets/csv/default-
8fb8a36c49743540/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
493 100%|██████████| 1/1 [00:00<00:00, 100.01it/s]
494 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
8fb8a36c49743540/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
495 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
496 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 124.76it/s]
497 Downloading and preparing dataset csv/default to C:/-
Users/admin/.cache/huggingface/datasets/csv/default-
d0ca4f82aa9fc32d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
498 100%|██████████| 1/1 [00:00<00:00, 71.38it/s]
499 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
d0ca4f82aa9fc32d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
500 t is : 3
501 addlen is: 1500
502 noexp_df.shape[0] last 9741
503 unexplained dataset length is:
504 9741
```

```
505 embedding begin
506 trian and val dataset length: 46440
507 rs_add_1_818
508 rs_add_1_818
509 rs_add_1_818
510 rs_add_1_818
511 rs_add_1_818
512 rs_add_1_818
513 rs_add_1_818
514 rs_add_1_818
515 387.0
516 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
517 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-51d0e6f588d5bd7b/0.
0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
518 100%|██████████| 1/1 [00:00<00:00, 71.43it/s]
519 test len 19260
520 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
31f48efabe390437/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
521 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 963.54it/s]
522 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 142.83it/s]
523 100%|██████████| 1/1 [00:00<00:00, 71.40it/s]
524 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
31f48efabe390437/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
525 preprocess_samples begin ...
526 uncertainty shape: 1530
527 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
528 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-00832eee86472dfb/0.
```

```
528 0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
529 100%|██████████| 1/1 [00:00<00:00, 494.73it/s]
530 val len 9636
531 Downloading and preparing dataset csv/default to C:/
  Users/admin/.cache/huggingface/datasets/csv/default-
  602be66cf8f52f2/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
532 Downloading data files: 100%|██████████| 1/1 [00:00
  <?, ?it/s]
533 Extracting data files: 100%|██████████| 1/1 [00:00<
  00:00, 142.87it/s]
534 100%|██████████| 1/1 [00:00<00:00, 76.78it/s]
535 Dataset csv downloaded and prepared to C:/Users/
  admin/.cache/huggingface/datasets/csv/default-
  602be66cf8f52f2/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
536 preprocess_samples begin ...
537 uncertainty shape: 720
538 ./val_embeddings/NEW_bertie_embeddings_textattack/
  bert-base-uncased-MNLI_subset_1.pt
539 classify begin
540 3908
541 0%|           | 0/20 [00:00<?, ?it/s]rs_add_1_818
542 rs_add_1_818
543 466it [00:09, 169.53it/s]rs_add_1_818
544 rs_add_1_818
545 rs_add_1_818
546 485it [00:23, 12.27it/s] rs_add_1_818
547 939it [00:23, 122.52it/s]rs_add_1_818
548 rs_add_1_818
549 rs_add_1_818
550 rs_add_1_818
551 1408it [00:38, 91.23it/s]rs_add_1_818
552 rs_add_1_818
553 rs_add_1_818
554 rs_add_1_818
555 1876it [00:52, 87.79it/s]rs_add_1_818
```

```
556 rs_add_1_818
557 rs_add_1_818
558 rs_add_1_818
559 2385it [01:07, 95.02it/s]rs_add_1_818
560 rs_add_1_818
561 rs_add_1_818
562 rs_add_1_818
563 2904it [01:20, 102.84it/s]rs_add_1_818
564 rs_add_1_818
565 rs_add_1_818
566 2905it [01:33, 13.60it/s] rs_add_1_818
567 3365it [01:34, 103.69it/s]rs_add_1_818
568 rs_add_1_818
569 rs_add_1_818
570 rs_add_1_818
571 3804it [01:47, 75.35it/s]rs_add_1_818
572 rs_add_1_818
573 rs_add_1_818
574 rs_add_1_818
575 4310it [02:01, 93.67it/s]rs_add_1_818
576 rs_add_1_818
577 rs_add_1_818
578 4357it [02:15, 15.62it/s]rs_add_1_818
579 4830it [02:15, 122.82it/s]rs_add_1_818
580 rs_add_1_818
581 rs_add_1_818
582 rs_add_1_818
583 5298it [02:31, 123.05it/s]rs_add_1_818
584 rs_add_1_818
585 5324it [02:42, 123.05it/s]rs_add_1_818
586 rs_add_1_818
587 5777it [02:47, 107.54it/s]rs_add_1_818
588 rs_add_1_818
589 rs_add_1_818
590 rs_add_1_818
591 6250it [03:01, 92.97it/s]rs_add_1_818
592 rs_add_1_818
593 rs_add_1_818
594 6293it [03:15, 14.77it/s]rs_add_1_818
595 6755it [03:15, 123.00it/s]rs_add_1_818
596 rs_add_1_818
```

```
597 rs_add_1_818
598 rs_add_1_818
599 7188it [03:29, 75.60it/s]rs_add_1_818
600 rs_add_1_818
601 rs_add_1_818
602 7261it [03:42, 17.50it/s]rs_add_1_818
603 7687it [03:43, 98.44it/s]rs_add_1_818
604 rs_add_1_818
605 rs_add_1_818
606 rs_add_1_818
607 8189it [03:56, 98.53it/s]rs_add_1_818
608 rs_add_1_818
609 rs_add_1_818
610 rs_add_1_818
611 8672it [04:10, 96.43it/s]rs_add_1_818
612 rs_add_1_818
613 rs_add_1_818
614 8713it [04:23, 15.25it/s]rs_add_1_818
615 9188it [04:23, 126.33it/s]rs_add_1_818
616 rs_add_1_818
617 rs_add_1_818
618 rs_add_1_818
619 9668it [04:37, 97.06it/s]rs_add_1_818
620 rs_add_1_818
621 epoch number 19
622 rs_add_1_818
623 rs_add_1_818
624 rs_add_1_818
625 9680it [04:52, 97.06it/s]rs_add_1_818
626 global t is : 3
627 test epoch results {'accuracy': 0.5326797385620915
, 'f1_weighted': 0.49504701610679747, 'f1_macro': 0.
3759389106203584, 'f1': array([0.82914573, 0
. , 0.25352113, 0.1920904 , 0.50738916,
628 0. , 0.47734139, 0.57641196, 0.
54755043]), 'precision': array([0.81280788, 0
. , 0.40909091, 0.32075472, 0.53645833,
629 0. , 0.50318471, 0.46143617, 0.
62913907]), 'recall': array([0.84615385, 0
. , 0.18367347, 0.13709677, 0.48130841,
630 0. , 0.45402299, 0.76769912, 0.
```

```
630 48469388])}
631 val epoch results {'accuracy': 0.6194444444444445, 'f1_weighted': 0.5688171754158401, 'f1_macro': 0.3914071403503728, 'f1': array([0.83962264, 0. . . , 0.33333333, 0.14141414, 0.47058824, 0. . . , 0.53435115, 0.71020408, 0.49315068]), 'precision': array([0.8317757, 0. . . , 1. . . , 0.31818182, 0.48484848, 0. . . , 0.625, 0.58520179, 0.66666667]), 'recall': array([0.84761905, 0. . . , 0.2, 0.09090909, 0.45714286, 0. . . , 0.46666667, 0.90311419, 0.39130435])}
635 9680it [04:53, 32.99it/s]
636 ['people are praying god bless folded hands lord in their thoughts\n']
637 Downloading data files: 100%|██████████| 1/1 [00:00<00:00, 2009.73it/s]
638 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 142.85it/s]
639 Generating train split: 0 examples [00:00, ? examples/s] Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-beeffee6dac3762e7/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
640 100%|██████████| 1/1 [00:00<00:00, 111.03it/s]
641 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-beeffee6dac3762e7/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. Subsequent calls will reuse this data.
642 Downloading data files: 100%|██████████| 1/1 [00:00 <?, ?it/s]
643 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-ee2f137bd2cd4f02/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
644 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 117.60it/s]
```

```
645 100%|██████████| 1/1 [00:00<00:00, 76.90it/s]
646 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
ee2f137bd2cd4f02/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
647 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
648 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
b81aa3b3e8a8d63c/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
649 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 143.00it/s]
650 100%|██████████| 1/1 [00:00<00:00, 76.92it/s]
651 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
b81aa3b3e8a8d63c/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
652 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
653 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
2d3f646d01116174/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
654 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 124.94it/s]
655 100%|██████████| 1/1 [00:00<00:00, 99.97it/s]
656 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
2d3f646d01116174/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
657 t is : 4
658 addlen is: 2000
659 noexp_df.shape[0] last 9241
660 unexplained dataset length is:
661 9241
```

```
662 embedding begin
663 trian and val dataset length: 56160
664 rs_add_1_818
665 rs_add_1_818
666 rs_add_1_818
667 rs_add_1_818
668 rs_add_1_818
669 rs_add_1_818
670 rs_add_1_818
671 rs_add_1_818
672 432.0
673 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
674 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-51d0e6f588d5bd7b/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
675 100%|██████████| 1/1 [00:00<00:00, 79.93it/s]
676 test len 20865
677 Downloading data files: 100%|██████████| 1/1 [00:00
<?, ?it/s]
678 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 154.07it/s]
679 Generating train split: 0 examples [00:00, ?
examples/s]Downloading and preparing dataset csv/
default to C:/Users/admin/.cache/huggingface/
datasets/csv/default-1c26ebcd60338041/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
680 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-1c26ebcd60338041/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
681 100%|██████████| 1/1 [00:00<00:00, 27.37it/s]
682 preprocess_samples begin ...
683 uncertainty shape: 1530
684 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
```

```
685 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-00832eee86472dfb/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1)
686 100%|██████████| 1/1 [00:00<00:00, 76.88it/s]
687 val len 10439
688 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
689 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 142.94it/s]
690 Generating train split: 0 examples [00:00, ?
    examples/s]Downloading and preparing dataset csv/
    default to C:/Users/admin/.cache/huggingface/
    datasets/csv/default-53b2bf06e30a70c4/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
691 100%|██████████| 1/1 [00:00<00:00, 90.90it/s]
692 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    53b2bf06e30a70c4/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1. Subsequent calls will reuse this data.
693 preprocess_samples begin ...
694 uncertainty shape: 720
695 ./val_embeddings/NEW_bertie_embeddings_textattack/
    bert-base-uncased-MNLI_subset_1.pt
696 classify begin
697 4408
698 0%|          | 0/20 [00:00<?, ?it/s]rs_add_1_818
699 rs_add_1_818
700 520it [00:16, 114.67it/s]rs_add_1_818
701 rs_add_1_818
702 rs_add_1_818
703 rs_add_1_818
704 1017it [00:30, 109.26it/s]rs_add_1_818
705 rs_add_1_818
706 rs_add_1_818
707 1080it [00:42, 109.26it/s]rs_add_1_818
708 1609it [00:45, 154.45it/s]rs_add_1_818
709 rs_add_1_818
```

```
710 rs_add_1_818
711 rs_add_1_818
712 2158it [00:59, 127.21it/s]rs_add_1_818
713 rs_add_1_818
714 rs_add_1_818
715 rs_add_1_818
716 2634it [01:13, 95.92it/s]rs_add_1_818
717 rs_add_1_818
718 rs_add_1_818
719 rs_add_1_818
720 3220it [01:27, 139.61it/s]rs_add_1_818
721 rs_add_1_818
722 rs_add_1_818
723 rs_add_1_818
724 3744it [01:41, 119.78it/s]rs_add_1_818
725 rs_add_1_818
726 rs_add_1_818
727 3780it [01:52, 119.78it/s]rs_add_1_818
728 4279it [01:56, 147.05it/s]rs_add_1_818
729 rs_add_1_818
730 rs_add_1_818
731 rs_add_1_818
732 4818it [02:11, 123.31it/s]rs_add_1_818
733 rs_add_1_818
734 rs_add_1_818
735 4861it [02:24, 14.94it/s] rs_add_1_818
736 5368it [02:25, 133.13it/s]rs_add_1_818
737 rs_add_1_818
738 rs_add_1_818
739 rs_add_1_818
740 5885it [02:39, 102.43it/s]rs_add_1_818
741 rs_add_1_818
742 rs_add_1_818
743 5941it [02:52, 16.63it/s] rs_add_1_818
744 6452it [02:53, 135.31it/s]rs_add_1_818
745 rs_add_1_818
746 rs_add_1_818
747 rs_add_1_818
748 6955it [03:07, 100.53it/s]rs_add_1_818
749 rs_add_1_818
750 rs_add_1_818
```

```
751 rs_add_1_818
752 7540it [03:21, 132.29it/s]rs_add_1_818
753 rs_add_1_818
754 rs_add_1_818
755 7561it [03:35, 14.27it/s] rs_add_1_818
756 8031it [03:35, 121.54it/s]rs_add_1_818
757 rs_add_1_818
758 rs_add_1_818
759 rs_add_1_818
760 8639it [03:50, 151.13it/s]rs_add_1_818
761 rs_add_1_818
762 rs_add_1_818
763 8641it [04:04, 11.80it/s] rs_add_1_818
764 9173it [04:04, 162.87it/s]rs_add_1_818
765 rs_add_1_818
766 rs_add_1_818
767 rs_add_1_818
768 9707it [04:19, 122.96it/s]rs_add_1_818
769 rs_add_1_818
770 rs_add_1_818
771 9720it [04:32, 122.96it/s]rs_add_1_818
772 10187it [04:33, 122.05it/s]rs_add_1_818
773 rs_add_1_818
774 rs_add_1_818
775 rs_add_1_818
776 10727it [04:47, 124.20it/s]rs_add_1_818
777 rs_add_1_818
778 epoch number 19
779 rs_add_1_818
780 rs_add_1_818
781 10800it [05:02, 124.20it/s]rs_add_1_818
782 rs_add_1_818
783 global t is : 4
784 test epoch results {'accuracy': 0.5647058823529412
, 'f1_weighted': 0.5285147112399691, 'f1_macro': 0.
41825184212956223, 'f1': array([0.84343434, 0
. , 0.41975309, 0.21714286, 0.59784946,
785 0. , 0.57704918, 0.58963466, 0.
51940299]), 'precision': array([0.83084577, 0
. , 0.53125 , 0.37254902, 0.55378486,
786 0. , 0.67175573, 0.47862069, 0.
```

```
786 62589928]), 'recall': array([0.85641026, 0
.           , 0.34693878, 0.15322581, 0.64953271,
787      0.           , 0.50574713, 0.76769912, 0.
44387755])}
788 val epoch results {'accuracy': 0.6375, 'f1_weighted'
': 0.5905210721869475, 'f1_macro': 0.
4418543176390357, 'f1': array([0.86877828, 0
.           , 0.625           , 0.19148936, 0.48837209,
789      0.           , 0.608           , 0.7122905 , 0.
48275862]), 'precision': array([0.82758621, 0
.           , 0.83333333, 0.52941176, 0.41176471,
790      0.           , 0.76           , 0.5971897 , 0.
66037736]), 'recall': array([0.91428571, 0
.           , 0.5           , 0.11688312, 0.6
, 0.
791      0.           , 0.50666667, 0.88235294, 0.
38043478])}
792 10800it [05:05, 35.38it/s]
793 ['there is significant damage homes losses no
electricity water has been restored\n']
794 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-
2edd697bec3602b3/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
795 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
796 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 142.18it/s]
797 100%|██████████| 1/1 [00:00<00:00, 99.68it/s]
798 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
2edd697bec3602b3/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
799 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
800 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-
f221a2896dc6570d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
```

```
801 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 125.17it/s]
802 100%|██████████| 1/1 [00:00<00:00, 83.35it/s]
803 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-f221a2896dc6570d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
804 Downloading data files: 100%|██████████| 1/1 [00:00<00:00, 1000.79it/s]
805 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-9905547383c3c997/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
806 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 142.62it/s]
807 100%|██████████| 1/1 [00:00<00:00, 100.02it/s]
808 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-9905547383c3c997/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
809 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]
810 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 141.72it/s]
811 Generating train split: 0 examples [00:00, ?examples/s]Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-ed628132d299832c/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
812 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-ed628132d299832c/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
813 100%|██████████| 1/1 [00:00<00:00, 32.25it/s]
814 t is : 5
```

```
815 addlen is: 2500
816 noexp_df.shape[0] last 8741
817 unexplained dataset length is:
818 8741
819 embedding begin
820 trian and val dataset length: 68040
821 rs_add_1_818
822 rs_add_1_818
823 rs_add_1_818
824 rs_add_1_818
825 rs_add_1_818
826 rs_add_1_818
827 rs_add_1_818
828 rs_add_1_818
829 486.0
830 ./embeddings/NEW_bertie_embeddings_textattack/bert-
    base-uncased-MNLI_subset_1.pt
831 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-51d0e6f588d5bd7b/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1)
832 100%|██████████| 1/1 [00:00<00:00, 38.98it/s]
833 test len 22470
834 Downloading data files: 100%|██████████| 1/1 [00:00<
    00:00, 1001.51it/s]
835 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 125.06it/s]
836 Downloading and preparing dataset csv/default to C:/
    Users/admin/.cache/huggingface/datasets/csv/default-
    e7421900cd00e0a4/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
837 100%|██████████| 1/1 [00:00<00:00, 48.76it/s]
838 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    e7421900cd00e0a4/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1. Subsequent calls will reuse this data.
839 preprocess_samples begin ...
840 uncertainty shape: 1530
```

```
841 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
842 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-0083eee86472dfb/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
843 100%|██████████| 1/1 [00:00<00:00, 35.01it/s]
844 val len 11242
845 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-c94e34cffd2badb3/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
846 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 840.71it/s]
847 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 58.69it/s]
848 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-c94e34cffd2badb3/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
849 100%|██████████| 1/1 [00:00<00:00, 26.58it/s]
850 preprocess_samples begin ...
851 uncertainty shape: 720
852 ./val_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
853 classify begin
854 4908
855 0%|          | 0/20 [00:00<?, ?it/s]rs_add_1_818
856 rs_add_1_818
857 589it [00:08, 291.11it/s]rs_add_1_818
858 rs_add_1_818
859 rs_add_1_818
860 rs_add_1_818
861 1179it [00:22, 147.66it/s]rs_add_1_818
862 rs_add_1_818
863 rs_add_1_818
864 rs_add_1_818
```

```
865 1791it [00:36, 168.46it/s]rs_add_1_818
866 rs_add_1_818
867 rs_add_1_818
868 1825it [00:49, 15.14it/s] rs_add_1_818
869 2407it [00:50, 188.89it/s]rs_add_1_818
870 rs_add_1_818
871 rs_add_1_818
872 rs_add_1_818
873 3010it [01:03, 148.98it/s]rs_add_1_818
874 rs_add_1_818
875 rs_add_1_818
876 rs_add_1_818
877 3625it [01:17, 188.84it/s]rs_add_1_818
878 rs_add_1_818
879 rs_add_1_818
880 rs_add_1_818
881 4254it [01:31, 153.36it/s]rs_add_1_818
882 rs_add_1_818
883 rs_add_1_818
884 rs_add_1_818
885 4831it [01:44, 137.62it/s]rs_add_1_818
886 rs_add_1_818
887 rs_add_1_818
888 4864it [01:57, 137.62it/s]rs_add_1_818
889 5411it [01:58, 175.10it/s]rs_add_1_818
890 rs_add_1_818
891 rs_add_1_818
892 rs_add_1_818
893 6059it [02:11, 183.78it/s]rs_add_1_818
894 rs_add_1_818
895 rs_add_1_818
896 rs_add_1_818
897 6677it [02:25, 149.49it/s]rs_add_1_818
898 rs_add_1_818
899 rs_add_1_818
900 6689it [02:38, 15.47it/s] rs_add_1_818
901 7221it [02:39, 145.39it/s]rs_add_1_818
902 rs_add_1_818
903 rs_add_1_818
904 rs_add_1_818
905 7841it [02:52, 149.13it/s]rs_add_1_818
```

```
906 rs_add_1_818
907 rs_add_1_818
908 rs_add_1_818
909 8470it [03:06, 150.52it/s]rs_add_1_818
910 rs_add_1_818
911 rs_add_1_818
912 8513it [03:19, 17.73it/s] rs_add_1_818
913 9116it [03:20, 193.71it/s]rs_add_1_818
914 rs_add_1_818
915 rs_add_1_818
916 rs_add_1_818
917 9724it [03:33, 146.98it/s]rs_add_1_818
918 rs_add_1_818
919 rs_add_1_818
920 rs_add_1_818
921 10308it [03:47, 138.02it/s]rs_add_1_818
922 rs_add_1_818
923 rs_add_1_818
924 10336it [03:57, 138.02it/s]rs_add_1_818
925 10895it [04:00, 178.93it/s]rs_add_1_818
926 rs_add_1_818
927 rs_add_1_818
928 rs_add_1_818
929 11532it [04:14, 178.93it/s]rs_add_1_818
930 rs_add_1_818
931 rs_add_1_818
932 11553it [04:27, 14.26it/s] rs_add_1_818
933 12155it [04:28, 193.39it/s]rs_add_1_818
934 rs_add_1_818
935 epoch number 19
936 rs_add_1_818
937 rs_add_1_818
938 rs_add_1_818
939 rs_add_1_818
940 global t is : 5
941 test epoch results {'accuracy': 0.5862745098039216
, 'f1_weighted': 0.5520857995495135, 'f1_macro': 0.
4270816661687506, 'f1': array([0.84318766, 0
, 0.24691358, 0.2804878 , 0.60434783,
0.04347826, 0.63157895, 0.61063465, 0.
58310627]), 'precision': array([0.84536082, 0
```

```
942 . , 0.3125 , 0.575 , 0.56504065,
943 0.66666667, 0.73846154, 0.49859944, 0.
62573099], 'recall': array([0.84102564, 0
. , 0.20408163, 0.18548387, 0.64953271,
944 0.02247191, 0.55172414, 0.78761062, 0.
54591837])}
945 val epoch results {'accuracy': 0.6402777777777777, 'f1_weighted': 0.5912317347471014, 'f1_macro': 0.
4446318515882296, 'f1': array([0.86666667, 0
. , 0.66666667, 0.13483146, 0.51764706,
946 0. , 0.61538462, 0.7254902 , 0.475
]), 'precision': array([0.86666667, 0
. , 1. , 0.5 , 0.44
,
947 0. , 0.72727273, 0.60941176, 0.
55882353], 'recall': array([0.86666667, 0
. , 0.5 , 0.07792208, 0.62857143,
948 0. , 0.53333333, 0.89619377, 0.
41304348])}
949 12160it [04:43, 42.88it/s]
950 ['people are offering to help volunteering donate
donations give $ money generously\n']
951 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-e76aa297bba8e501/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
952 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
953 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 110.39it/s]
954 100%|██████████| 1/1 [00:00<00:00, 90.91it/s]
955 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
e76aa297bba8e501/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
956 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
957 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-
88e064dd427f9b45/0.0.0/
```

```
957 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
958 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 124.95it/s]  
959 100%|██████████| 1/1 [00:00<00:00, 90.47it/s]  
960 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
88e064dd427f9b45/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
961 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
962 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 122.23it/s]  
963 Generating train split: 0 examples [00:00, ?  
examples/s]Downloading and preparing dataset csv/  
default to C:/Users/admin/.cache/huggingface/  
datasets/csv/default-3f701bf1bac4f2a5/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
964 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
3f701bf1bac4f2a5/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
965 100%|██████████| 1/1 [00:00<00:00, 99.71it/s]  
966 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
967 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
6ad158dd0d88b097/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
968 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 125.06it/s]  
969 100%|██████████| 1/1 [00:00<00:00, 81.17it/s]  
970 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
6ad158dd0d88b097/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
```

```
970 3bcc7ec513e1. Subsequent calls will reuse this data
.
971 t is : 6
972 addlen is: 3000
973 noexp_df.shape[0] last 8241
974 unexplained dataset length is:
975 8241
976 embedding begin
977 trian and val dataset length: 81000
978 rs_add_1_818
979 rs_add_1_818
980 rs_add_1_818
981 rs_add_1_818
982 rs_add_1_818
983 rs_add_1_818
984 rs_add_1_818
985 rs_add_1_818
986 540.0
987 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
988 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-51d0e6f588d5bd7b/0
.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1)
989 100%|██████████| 1/1 [00:00<00:00, 333.20it/s]
990 test len 24075
991 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-42defb46f26a63c4/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
992 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
993 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 90.89it/s]
994 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-42defb46f26a63c4/0
.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
```

```
994 53bcc7ec513e1. Subsequent calls will reuse this
      data.
995 100%|██████████| 1/1 [00:00<00:00, 73.29it/s]
996 preprocess_samples begin ...
997 uncertainty shape: 1530
998 ./test_embeddings/NEW_bertie_embeddings_textattack/
      bert-base-uncased-MNLI_subset_1.pt
999 Found cached dataset csv (C:/Users/admin/.cache/
      huggingface/datasets/csv/default-00832eee86472dfb/0
      .0.0/
      6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
      53bcc7ec513e1)
1000 100%|██████████| 1/1 [00:00<00:00, 1003.42it/s]
1001 val len 12045
1002 Downloading and preparing dataset csv/default to C
      :/Users/admin/.cache/huggingface/datasets/csv/
      default-0db1e81f95ef4f78/0.0.0/
      6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
      53bcc7ec513e1...
1003 Downloading data files: 100%|██████████| 1/1 [00:00
      <00:00, 999.36it/s]
1004 Extracting data files: 100%|██████████| 1/1 [00:00<
      00:00, 166.12it/s]
1005 100%|██████████| 1/1 [00:00<00:00, 62.50it/s]
1006 Dataset csv downloaded and prepared to C:/Users/
      admin/.cache/huggingface/datasets/csv/default-
      0db1e81f95ef4f78/0.0.0/
      6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
      53bcc7ec513e1. Subsequent calls will reuse this
      data.
1007 preprocess_samples begin ...
1008 uncertainty shape: 720
1009 ./val_embeddings/NEW_bertie_embeddings_textattack/
      bert-base-uncased-MNLI_subset_1.pt
1010 classify begin
1011 5408
1012 0%|          | 0/20 [00:00<?, ?it/s]rs_add_1_818
1013 rs_add_1_818
1014 670it [00:09, 315.57it/s]rs_add_1_818
1015 rs_add_1_818
1016 rs_add_1_818
```

```
1017 676it [00:22, 14.11it/s] rs_add_1_818
1018 1346it [00:23, 252.98it/s]rs_add_1_818
1019 rs_add_1_818
1020 rs_add_1_818
1021 rs_add_1_818
1022 1984it [00:37, 169.83it/s]rs_add_1_818
1023 rs_add_1_818
1024 rs_add_1_818
1025 rs_add_1_818
1026 2669it [00:51, 220.07it/s]rs_add_1_818
1027 rs_add_1_818
1028 rs_add_1_818
1029 2700it [01:02, 220.07it/s]rs_add_1_818
1030 3310it [01:05, 224.19it/s]rs_add_1_818
1031 rs_add_1_818
1032 rs_add_1_818
1033 rs_add_1_818
1034 3998it [01:20, 221.33it/s]rs_add_1_818
1035 rs_add_1_818
1036 rs_add_1_818
1037 4051it [01:33, 16.23it/s] rs_add_1_818
1038 4658it [01:34, 225.03it/s]rs_add_1_818
1039 rs_add_1_818
1040 rs_add_1_818
1041 rs_add_1_818
1042 5358it [01:48, 225.07it/s]rs_add_1_818
1043 rs_add_1_818
1044 rs_add_1_818
1045 rs_add_1_818
1046 6039it [02:02, 190.93it/s]rs_add_1_818
1047 rs_add_1_818
1048 rs_add_1_818
1049 rs_add_1_818
1050 6714it [02:16, 193.99it/s]rs_add_1_818
1051 rs_add_1_818
1052 rs_add_1_818
1053 rs_add_1_818
1054 7418it [02:31, 258.11it/s]rs_add_1_818
1055 rs_add_1_818
1056 rs_add_1_818
1057 7425it [02:42, 258.11it/s]rs_add_1_818
```

```
1058 8028it [02:46, 216.85it/s]rs_add_1_818
1059 rs_add_1_818
1060 rs_add_1_818
1061 rs_add_1_818
1062 8724it [03:00, 225.26it/s]rs_add_1_818
1063 rs_add_1_818
1064 rs_add_1_818
1065 8776it [03:13, 16.45it/s] rs_add_1_818
1066 9377it [03:14, 221.90it/s]rs_add_1_818
1067 rs_add_1_818
1068 rs_add_1_818
1069 rs_add_1_818
1070 10119it [03:29, 270.51it/s]rs_add_1_818
1071 rs_add_1_818
1072 rs_add_1_818
1073 rs_add_1_818
1074 10780it [03:43, 270.98it/s]rs_add_1_818
1075 rs_add_1_818
1076 rs_add_1_818
1077 rs_add_1_818
1078 11440it [03:58, 185.79it/s]rs_add_1_818
1079 rs_add_1_818
1080 rs_add_1_818
1081 rs_add_1_818
1082 12127it [04:11, 197.11it/s]rs_add_1_818
1083 rs_add_1_818
1084 rs_add_1_818
1085 12151it [04:24, 16.07it/s] rs_add_1_818
1086 12743it [04:25, 188.63it/s]rs_add_1_818
1087 rs_add_1_818
1088 rs_add_1_818
1089 rs_add_1_818
1090 13474it [04:40, 255.87it/s]rs_add_1_818
1091 rs_add_1_818
1092 epoch number 19
1093 rs_add_1_818
1094 rs_add_1_818
1095 13500it [04:52, 255.87it/s]rs_add_1_818
1096 rs_add_1_818
1097 global t is : 6
1098 test epoch results {'accuracy': 0.5856209150326798
```

```
1098 , 'f1_weighted': 0.5548450531373811, 'f1_macro': 0.  
439300564540501, 'f1': array([0.83673469, 0  
. . . , 0.32183908, 0.27380952, 0.5877193 ,  
1099 0.10526316, 0.64473684, 0.61217391, 0.  
57142857]), 'precision': array([0.83248731, 0  
. . . , 0.36842105, 0.52272727, 0.55371901,  
1100 0.83333333, 0.75384615, 0.50429799, 0.  
60571429]), 'recall': array([0.84102564, 0  
. . . , 0.28571429, 0.18548387, 0.62616822,  
1101 0.05617978, 0.56321839, 0.77876106, 0.  
54081633])}  
1102 val epoch results {'accuracy': 0.6444444444444445  
, 'f1_weighted': 0.5997679235535388, 'f1_macro': 0.  
4486992016963328, 'f1': array([0.84615385, 0  
. . . , 0.625 , 0.17391304, 0.5 ,  
1103 0. . . , 0.64122137, 0.72370266, 0.  
52830189]), 'precision': array([0.85436893, 0  
. . . , 0.83333333, 0.53333333, 0.42857143,  
1104 0. . . , 0.75 , 0.60849057, 0.  
62686567]), 'recall': array([0.83809524, 0  
. . . , 0.5 , 0.1038961 , 0.6 ,  
1105 0. . . , 0.56 , 0.89273356, 0.  
45652174])}  
1106 13500it [04:56, 45.49it/s]  
1107 ['advice warning to be careful tips and can give  
guidance alert Watches\n']  
1108 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1109 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 141.84it/s]  
1110 Generating train split: 0 examples [00:00, ?  
examples/s]Downloading and preparing dataset csv/  
default to C:/Users/admin/.cache/huggingface/  
datasets/csv/default-326a6758cb68c94f/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1111 100%|██████████| 1/1 [00:00<00:00, 100.03it/s]  
1112 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
326a6758cb68c94f/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
```

```
1112 53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1113 Downloading data files: 100%|██████████| 1/1 [00:00  
<00:00, 959.58it/s]  
1114 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 125.94it/s]  
1115 Generating train split: 0 examples [00:00, ?  
examples/s]Downloading and preparing dataset csv/  
default to C:/Users/admin/.cache/huggingface/  
datasets/csv/default-674f18b1507ddb44/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1116 100%|██████████| 1/1 [00:00<00:00, 66.64it/s]  
1117 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
674f18b1507ddb44/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1118 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
1119 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-3e944a35bd608744/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1120 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 142.87it/s]  
1121 100%|██████████| 1/1 [00:00<00:00, 94.63it/s]  
1122 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
3e944a35bd608744/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1123 Downloading data files: 100%|██████████| 1/1 [00:00  
<00:00, 2233.39it/s]  
1124 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-4985aa6f4807a468/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
```

```
1124 53bcc7ec513e1...
1125 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 124.43it/s]
1126 100%|██████████| 1/1 [00:00<00:00, 95.22it/s]
1127 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    4985aa6f4807a468/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1128 t is : 7
1129 addlen is: 3500
1130 noexp_df.shape[0] last 7741
1131 unexplained dataset length is:
1132 7741
1133 embedding begin
1134 trian and val dataset length: 93600
1135 rs_add_1_818
1136 rs_add_1_818
1137 rs_add_1_818
1138 rs_add_1_818
1139 rs_add_1_818
1140 rs_add_1_818
1141 rs_add_1_818
1142 rs_add_1_818
1143 585.0
1144 ./embeddings/NEW_bertie_embeddings_textattack/bert-
    base-uncased-MNLI_subset_1.pt
1145 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-51d0e6f588d5bd7b/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1)
1146 100%|██████████| 1/1 [00:00<00:00, 55.54it/s]
1147 test len 25680
1148 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1149 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 166.11it/s]
1150 Generating train split: 0 examples [00:00, ?
    examples/s]Downloading and preparing dataset csv/
```

```
1150 default to C:/Users/admin/.cache/huggingface/
    datasets/csv/default-70df43dc965db339/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1151 100%|██████████| 1/1 [00:00<00:00, 90.88it/s]
1152 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    70df43dc965db339/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1153 preprocess_samples begin ...
1154 uncertainty shape: 1530
1155 ./test_embeddings/NEW_bertie_embeddings_textattack/
    bert-base-uncased-MNLI_subset_1.pt
1156 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-00832eee86472dfb/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1)
1157 100%|██████████| 1/1 [00:00<00:00, 90.83it/s]
1158 val len 12848
1159 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-c7a2b1fb4cbc16a0/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1160 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1161 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 142.82it/s]
1162 0%|          | 0/1 [00:00<, ?it/s]Dataset csv
    downloaded and prepared to C:/Users/admin/.cache/
    huggingface/datasets/csv/default-c7a2b1fb4cbc16a0/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1163 100%|██████████| 1/1 [00:00<00:00, 49.85it/s]
1164 preprocess_samples begin ...
1165 uncertainty shape: 720
```

```
1166 ./val_embeddings/NEW_bertie_embeddings_textattack/
      bert-base-uncased-MNLI_subset_1.pt
1167 classify begin
1168 5908
1169   0%          | 0/20 [00:00<?, ?it/s]rs_add_1_818
1170 rs_add_1_818
1171 678it [00:16, 255.18it/s]rs_add_1_818
1172 rs_add_1_818
1173 rs_add_1_818
1174 732it [00:27, 255.18it/s]rs_add_1_818
1175 1419it [00:31, 270.71it/s]rs_add_1_818
1176 rs_add_1_818
1177 rs_add_1_818
1178 rs_add_1_818
1179 2177it [00:46, 263.99it/s]rs_add_1_818
1180 rs_add_1_818
1181 rs_add_1_818
1182 2197it [00:59, 13.52it/s] rs_add_1_818
1183 2863it [01:00, 241.03it/s]rs_add_1_818
1184 rs_add_1_818
1185 rs_add_1_818
1186 rs_add_1_818
1187 3607it [01:14, 242.10it/s]rs_add_1_818
1188 rs_add_1_818
1189 rs_add_1_818
1190 3660it [01:27, 242.10it/s]rs_add_1_818
1191 4346it [01:30, 318.22it/s]rs_add_1_818
1192 rs_add_1_818
1193 rs_add_1_818
1194 rs_add_1_818
1195 5082it [01:46, 224.71it/s]rs_add_1_818
1196 rs_add_1_818
1197 rs_add_1_818
1198 5125it [01:59, 16.89it/s] rs_add_1_818
1199 5800it [02:00, 253.41it/s]rs_add_1_818
1200 rs_add_1_818
1201 rs_add_1_818
1202 rs_add_1_818
1203 6563it [02:14, 250.09it/s]rs_add_1_818
1204 rs_add_1_818
1205 rs_add_1_818
```

```
1206 6588it [02:27, 250.09it/s]rs_add_1_818
1207 7272it [02:28, 260.25it/s]rs_add_1_818
1208 rs_add_1_818
1209 rs_add_1_818
1210 rs_add_1_818
1211 8024it [02:43, 268.22it/s]rs_add_1_818
1212 rs_add_1_818
1213 rs_add_1_818
1214 rs_add_1_818
1215 8782it [02:58, 273.53it/s]rs_add_1_818
1216 rs_add_1_818
1217 rs_add_1_818
1218 rs_add_1_818
1219 9457it [03:12, 217.11it/s]rs_add_1_818
1220 rs_add_1_818
1221 rs_add_1_818
1222 rs_add_1_818
1223 10217it [03:27, 273.90it/s]rs_add_1_818
1224 rs_add_1_818
1225 rs_add_1_818
1226 10249it [03:41, 14.52it/s] rs_add_1_818
1227 10902it [03:41, 232.80it/s]rs_add_1_818
1228 rs_add_1_818
1229 rs_add_1_818
1230 rs_add_1_818
1231 11657it [03:55, 254.21it/s]rs_add_1_818
1232 rs_add_1_818
1233 rs_add_1_818
1234 11713it [04:08, 18.61it/s] rs_add_1_818
1235 12367it [04:09, 248.57it/s]rs_add_1_818
1236 rs_add_1_818
1237 rs_add_1_818
1238 rs_add_1_818
1239 13157it [04:23, 282.45it/s]rs_add_1_818
1240 rs_add_1_818
1241 rs_add_1_818
1242 rs_add_1_818
1243 13838it [04:38, 217.95it/s]rs_add_1_818
1244 rs_add_1_818
1245 rs_add_1_818
1246 rs_add_1_818
```

```
1247 14612it [04:52, 276.14it/s]rs_add_1_818
1248 rs_add_1_818
1249 epoch number 19
1250 rs_add_1_818
1251 rs_add_1_818
1252 14640it [05:07, 276.14it/s]rs_add_1_818
1253 rs_add_1_818
1254 global t is : 7
1255 test epoch results {'accuracy': 0.5908496732026144
, 'f1_weighted': 0.558535707497957, 'f1_macro': 0.
4499216761918166, 'f1': array([0.84832905, 0.
09756098, 0.36585366, 0.26993865, 0.59555556,
1256 0.02197802, 0.64846416, 0.6108291 , 0.
59078591]), 'precision': array([0.85051546, 0.5
, 0.45454545, 0.56410256, 0.56779661,
1257 0.5 , 0.79831933, 0.49452055, 0.
6300578 ]), 'recall': array([0.84615385, 0.05405405
, 0.30612245, 0.17741935, 0.62616822,
1258 0.01123596, 0.54597701, 0.79867257, 0.
55612245])}
1259 val epoch results {'accuracy': 0.6527777777777778
, 'f1_weighted': 0.608570200359747, 'f1_macro': 0.
4621590237788673, 'f1': array([0.86407767, 0
. , 0.66666667, 0.2173913 , 0.52380952,
1260 0. , 0.65116279, 0.72651934, 0.
50980392]), 'precision': array([0.88118812, 0
. , 1. , 0.66666667, 0.44897959,
1261 0. , 0.77777778, 0.6045977 , 0.
63934426]), 'recall': array([0.84761905, 0
. , 0.5 , 0.12987013, 0.62857143,
1262 0. , 0.56 , 0.9100346 , 0.
42391304])}
1263 14640it [05:09, 47.32it/s]
1264 ['contains useful information helps to understand
the situation is important\n']
1265 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-7ec457995736ecc0/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1266 Downloading data files: 100%|██████████| 1/1 [00:00
```

```
1266 <?, ?it/s]
1267 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 125.41it/s]
1268 100%|██████████| 1/1 [00:00<00:00, 99.91it/s]
1269 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    7ec457995736ecc0/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1270 Downloading data files: 100%|██████████| 1/1 [00:00
    <?, ?it/s]
1271 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 99.66it/s]
1272 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-768ebd09779561b5/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1273 100%|██████████| 1/1 [00:00<00:00, 74.88it/s]
1274 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    768ebd09779561b5/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1275 Downloading data files: 100%|██████████| 1/1 [00:00
    <?, ?it/s]
1276 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-aceef83539ed6c99/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1277 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 124.99it/s]
1278 100%|██████████| 1/1 [00:00<00:00, 100.00it/s]
1279 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    aceef83539ed6c99/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
```

```
1279 data.  
1280 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1281 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 142.84it/s]  
1282 Downloading and preparing dataset csv/default to C:  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-89f81f0468fef49b/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1283 100%|██████████| 1/1 [00:00<00:00, 100.00it/s]  
1284 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
89f81f0468fef49b/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1285 t is : 8  
1286 addlen is: 4000  
1287 noexp_df.shape[0] last 7241  
1288 unexplained dataset length is:  
1289 7241  
1290 embedding begin  
1291 trian and val dataset length: 108630  
1292 rs_add_1_818  
1293 rs_add_1_818  
1294 rs_add_1_818  
1295 rs_add_1_818  
1296 rs_add_1_818  
1297 rs_add_1_818  
1298 rs_add_1_818  
1299 rs_add_1_818  
1300 639.0  
1301 ./embeddings/NEW_bertie_embeddings_textattack/bert-  
base-uncased-MNLI_subset_1.pt  
1302 Found cached dataset csv (C:/Users/admin/.cache/  
huggingface/datasets/csv/default-51d0e6f588d5bd7b/0  
.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1)  
1303 100%|██████████| 1/1 [00:00<00:00, 100.05it/s]
```

```
1304 test len 27285
1305 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1306 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 125.06it/s]
1307 Generating train split: 0 examples [00:00, ?
    examples/s]Downloading and preparing dataset csv/
    default to C:/Users/admin/.cache/huggingface/
    datasets/csv/default-dde6f5f0be904f19/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1308 100%|██████████| 1/1 [00:00<00:00, 66.64it/s]
1309 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    dde6f5f0be904f19/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1310 preprocess_samples begin ...
1311 uncertainty shape: 1530
1312 ./test_embeddings/NEW_bertie_embeddings_textattack/
    bert-base-uncased-MNLI_subset_1.pt
1313 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-00832eee86472dfb/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1)
1314 100%|██████████| 1/1 [00:00<00:00, 1004.86it/s]
1315 val len 13651
1316 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1317 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 151.65it/s]
1318 Generating train split: 0 examples [00:00, ?
    examples/s]Downloading and preparing dataset csv/
    default to C:/Users/admin/.cache/huggingface/
    datasets/csv/default-f17a1ef672687c6e/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1319 100%|██████████| 1/1 [00:00<00:00, 100.31it/s]
1320 Dataset csv downloaded and prepared to C:/Users/
```

```
1320 admin/.cache/huggingface/datasets/csv/default-
f17a1ef672687c6e/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
1321 preprocess_samples begin ...
1322 uncertainty shape: 720
1323 ./val_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
1324 classify begin
1325 6408
1326 0% | 0/20 [00:00<?, ?it/s]rs_add_1_818
1327 rs_add_1_818
1328 769it [00:10, 369.29it/s]rs_add_1_818
1329 rs_add_1_818
1330 rs_add_1_818
1331 800it [00:25, 8.33it/s] rs_add_1_818
1332 1563it [00:26, 391.39it/s]rs_add_1_818
1333 rs_add_1_818
1334 rs_add_1_818
1335 rs_add_1_818
1336 2350it [00:41, 402.12it/s]rs_add_1_818
1337 rs_add_1_818
1338 rs_add_1_818
1339 2398it [00:55, 12.93it/s] rs_add_1_818
1340 3191it [00:57, 435.11it/s]rs_add_1_818
1341 rs_add_1_818
1342 rs_add_1_818
1343 rs_add_1_818
1344 3977it [01:12, 363.32it/s]rs_add_1_818
1345 rs_add_1_818
1346 rs_add_1_818
1347 3996it [01:27, 9.99it/s] rs_add_1_818
1348 4762it [01:29, 371.97it/s]rs_add_1_818
1349 rs_add_1_818
1350 rs_add_1_818
1351 rs_add_1_818
1352 5559it [01:44, 382.11it/s]rs_add_1_818
1353 rs_add_1_818
1354 rs_add_1_818
1355 rs_add_1_818
```

```
1356 6369it [02:00, 381.20it/s]rs_add_1_818
1357 rs_add_1_818
1358 rs_add_1_818
1359 6393it [02:14, 10.22it/s] rs_add_1_818
1360 7190it [02:16, 347.75it/s]rs_add_1_818
1361 rs_add_1_818
1362 rs_add_1_818
1363 rs_add_1_818
1364 7947it [02:32, 379.54it/s]rs_add_1_818
1365 rs_add_1_818
1366 rs_add_1_818
1367 7991it [02:46, 10.85it/s] rs_add_1_818
1368 8788it [02:48, 386.90it/s]rs_add_1_818
1369 rs_add_1_818
1370 rs_add_1_818
1371 rs_add_1_818
1372 9566it [03:03, 343.82it/s]rs_add_1_818
1373 rs_add_1_818
1374 rs_add_1_818
1375 9589it [03:16, 12.54it/s] rs_add_1_818
1376 10386it [03:18, 398.63it/s]rs_add_1_818
1377 rs_add_1_818
1378 rs_add_1_818
1379 rs_add_1_818
1380 11150it [03:32, 294.90it/s]rs_add_1_818
1381 rs_add_1_818
1382 rs_add_1_818
1383 11187it [03:46, 15.82it/s] rs_add_1_818
1384 11943it [03:47, 339.73it/s]rs_add_1_818
1385 rs_add_1_818
1386 rs_add_1_818
1387 rs_add_1_818
1388 12716it [04:01, 287.98it/s]rs_add_1_818
1389 rs_add_1_818
1390 rs_add_1_818
1391 12785it [04:15, 17.27it/s] rs_add_1_818
1392 13583it [04:18, 339.01it/s]rs_add_1_818
1393 rs_add_1_818
1394 rs_add_1_818
1395 rs_add_1_818
1396 14350it [04:33, 380.25it/s]rs_add_1_818
```

```
1397 rs_add_1_818
1398 14382it [04:43, 380.25it/s]rs_add_1_818
1399 rs_add_1_818
1400 15161it [04:49, 396.45it/s]rs_add_1_818
1401 rs_add_1_818
1402 rs_add_1_818
1403 rs_add_1_818
1404 15941it [05:05, 396.00it/s]rs_add_1_818
1405 rs_add_1_818
1406 epoch number 19
1407 rs_add_1_818
1408 rs_add_1_818
1409 rs_add_1_818
1410 rs_add_1_818
1411 15980it [05:23, 396.00it/s]global t is : 8
1412 test epoch results {'accuracy': 0.5986928104575163
, 'f1_weighted': 0.568414710069309, 'f1_macro': 0.
4713001805184099, 'f1': array([0.84615385, 0.
16326531, 0.4494382 , 0.27329193, 0.5978022 ,
1413 0.04395604, 0.66257669, 0.62254025, 0.
58267717]), 'precision': array([0.84615385, 0.
33333333, 0.5 , 0.59459459, 0.56431535,
1414 1. , 0.71052632, 0.52252252, 0.6
]), 'recall': array([0.84615385, 0.10810811
, 0.40816327, 0.17741935, 0.63551402,
1415 0.02247191, 0.62068966, 0.7699115 , 0.
56632653])}
1416 val epoch results {'accuracy': 0.65, 'f1_weighted'
: 0.6023889865845885, 'f1_macro': 0.
4454454817192969, 'f1': array([0.85308057, 0
.
, 0.55555556, 0.17977528, 0.52873563,
1417 0. , 0.66666667, 0.72855134, 0.
4966443 ]), 'precision': array([0.8490566 , 0
.
, 0.625 , 0.66666667, 0.44230769,
1418 0. , 0.73015873, 0.61374408, 0.
64912281]), 'recall': array([0.85714286, 0
.
, 0.5 , 0.1038961 , 0.65714286,
1419 0. , 0.61333333, 0.89619377, 0.
40217391])}
1420 15980it [05:24, 49.29it/s]
1421 ['irrelevant not related']
```

```
1422 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1423 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 142.35it/s]
1424 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-19714128e570d333/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1425 100%|██████████| 1/1 [00:00<00:00, 83.58it/s]
1426 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    19714128e570d333/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1427 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1428 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 142.87it/s]
1429 Generating train split: 0 examples [00:00, ?
    examples/s]Downloading and preparing dataset csv/
    default to C:/Users/admin/.cache/huggingface/
    datasets/csv/default-d61b8b91e89c0fdb/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1430 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
    downloaded and prepared to C:/Users/admin/.cache/
    huggingface/datasets/csv/default-d61b8b91e89c0fdb/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1431 100%|██████████| 1/1 [00:00<00:00, 58.83it/s]
1432 Downloading data files: 100%|██████████| 1/1 [00:00
    <00:00, 1981.25it/s]
1433 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 117.89it/s]
1434 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-e619a8f48ddd5f94/0.0.0/
```

```
1434      6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
      53bcc7ec513e1...  
1435 100%|██████████| 1/1 [00:00<00:00, 64.52it/s]  
1436 Dataset csv downloaded and prepared to C:/Users/  
      admin/.cache/huggingface/datasets/csv/default-  
      e619a8f48ddd5f94/0.0.0/  
      6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
      53bcc7ec513e1. Subsequent calls will reuse this  
      data.  
1437 Downloading data files: 100%|██████████| 1/1 [00:00  
      <, ?it/s]  
1438 Downloading and preparing dataset csv/default to C  
      :/Users/admin/.cache/huggingface/datasets/csv/  
      default-7c463e60084c7515/0.0.0/  
      6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
      53bcc7ec513e1...  
1439 Extracting data files: 100%|██████████| 1/1 [00:00<  
      00:00, 133.35it/s]  
1440 100%|██████████| 1/1 [00:00<00:00, 86.91it/s]  
1441 Dataset csv downloaded and prepared to C:/Users/  
      admin/.cache/huggingface/datasets/csv/default-  
      7c463e60084c7515/0.0.0/  
      6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
      53bcc7ec513e1. Subsequent calls will reuse this  
      data.  
1442 t is : 9  
1443 addlen is: 4500  
1444 noexp_df.shape[0] last 6741  
1445 unexplained dataset length is:  
1446 6741  
1447 embedding begin  
1448 trian and val dataset length: 123120  
1449 rs_add_1_818  
1450 rs_add_1_818  
1451 rs_add_1_818  
1452 rs_add_1_818  
1453 rs_add_1_818  
1454 rs_add_1_818  
1455 rs_add_1_818  
1456 rs_add_1_818
```

```
1457 684.0
1458 ./embeddings/NEW_bertie_embeddings_textattack/bert-
    base-uncased-MNLI_subset_1.pt
1459 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-51d0e6f588d5bd7b/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1)
1460 100%|██████████| 1/1 [00:00<00:00, 71.41it/s]
1461 test len 28890
1462 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-9d8757cbc5397de8/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1463 Downloading data files: 100%|██████████| 1/1 [00:00
    <00:00, 999.83it/s]
1464 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 142.67it/s]
1465 100%|██████████| 1/1 [00:00<00:00, 58.87it/s]
1466 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    9d8757cbc5397de8/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1467 preprocess_samples begin ...
1468 uncertainty shape: 1530
1469 ./test_embeddings/NEW_bertie_embeddings_textattack/
    bert-base-uncased-MNLI_subset_1.pt
1470 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-00832eee86472dfb/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1)
1471 100%|██████████| 1/1 [00:00<00:00, 99.34it/s]
1472 val len 14454
1473 Downloading data files: 100%|██████████| 1/1 [00:00
    <?, ?it/s]
1474 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 119.89it/s]
```

```
1475 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-9c7a85a55e8e9b42/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1476 100%|██████████| 1/1 [00:00<00:00, 93.50it/s]
1477 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    9c7a85a55e8e9b42/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1478 preprocess_samples begin ...
1479 uncertainty shape: 720
1480 ./val_embeddings/NEW_bertie_embeddings_textattack/
    bert-base-uncased-MNLI_subset_1.pt
1481 classify begin
1482 6908
1483 0%|          | 0/20 [00:00<?, ?it/s]rs_add_1_818
1484 rs_add_1_818
1485 804it [00:17, 362.46it/s]rs_add_1_818
1486 rs_add_1_818
1487 rs_add_1_818
1488 rs_add_1_818
1489 1659it [00:32, 385.87it/s]rs_add_1_818
1490 rs_add_1_818
1491 rs_add_1_818
1492 1711it [00:47, 14.59it/s] rs_add_1_818
1493 2544it [00:48, 423.02it/s]rs_add_1_818
1494 rs_add_1_818
1495 rs_add_1_818
1496 rs_add_1_818
1497 3349it [01:02, 314.66it/s]rs_add_1_818
1498 rs_add_1_818
1499 rs_add_1_818
1500 rs_add_1_818
1501 4238it [01:16, 378.64it/s]rs_add_1_818
1502 rs_add_1_818
1503 rs_add_1_818
1504 rs_add_1_818
1505 5073it [01:30, 324.94it/s]rs_add_1_818
```

```
1506 rs_add_1_818
1507 rs_add_1_818
1508 rs_add_1_818
1509 5968it [01:44, 383.49it/s]rs_add_1_818
1510 rs_add_1_818
1511 rs_add_1_818
1512 5986it [01:57, 13.71it/s] rs_add_1_818
1513 6800it [01:59, 419.25it/s]rs_add_1_818
1514 rs_add_1_818
1515 rs_add_1_818
1516 rs_add_1_818
1517 7669it [02:13, 398.34it/s]rs_add_1_818
1518 rs_add_1_818
1519 rs_add_1_818
1520 7696it [02:27, 12.56it/s] rs_add_1_818
1521 8540it [02:29, 454.91it/s]rs_add_1_818
1522 rs_add_1_818
1523 rs_add_1_818
1524 rs_add_1_818
1525 9352it [02:44, 309.57it/s]rs_add_1_818
1526 rs_add_1_818
1527 rs_add_1_818
1528 9406it [02:58, 15.03it/s] rs_add_1_818
1529 10201it [03:00, 394.39it/s]rs_add_1_818
1530 rs_add_1_818
1531 rs_add_1_818
1532 10261it [03:14, 12.93it/s] rs_add_1_818
1533 11060it [03:15, 367.54it/s]rs_add_1_818
1534 rs_add_1_818
1535 rs_add_1_818
1536 11116it [03:29, 17.31it/s] rs_add_1_818
1537 11970it [03:30, 445.94it/s]rs_add_1_818
1538 rs_add_1_818
1539 rs_add_1_818
1540 11971it [03:46, 9.48it/s] rs_add_1_818
1541 12774it [03:48, 471.05it/s]rs_add_1_818
1542 rs_add_1_818
1543 rs_add_1_818
1544 rs_add_1_818
1545 13659it [04:03, 421.71it/s]rs_add_1_818
1546 rs_add_1_818
```

```
1547 rs_add_1_818
1548 13681it [04:17, 11.10it/s] rs_add_1_818
1549 14480it [04:18, 430.44it/s] rs_add_1_818
1550 rs_add_1_818
1551 rs_add_1_818
1552 rs_add_1_818
1553 15362it [04:34, 306.28it/s] rs_add_1_818
1554 rs_add_1_818
1555 rs_add_1_818
1556 15391it [04:48, 7.99it/s] rs_add_1_818
1557 16221it [04:49, 444.12it/s] rs_add_1_818
1558 rs_add_1_818
1559 rs_add_1_818
1560 rs_add_1_818
1561 17083it [05:04, 362.91it/s] rs_add_1_818
1562 rs_add_1_818
1563 epoch number 19
1564 rs_add_1_818
1565 rs_add_1_818
1566 17100it [05:16, 362.91it/s] rs_add_1_818
1567 rs_add_1_818
1568 global t is : 9
1569 test epoch results {'accuracy': 0.6111111111111112
, 'f1_weighted': 0.5828593041463542, 'f1_macro': 0.
49595407121395646, 'f1': array([0.84987277, 0.
17391304, 0.57657658, 0.33918129, 0.62882096,
1570 0.02222222, 0.66049383, 0.62570888, 0.
58679707]), 'precision': array([0.84343434, 0.
44444444, 0.51612903, 0.61702128, 0.59016393,
1571 1., 0.71333333, 0.54620462, 0.
56338028]), 'recall': array([0.85641026, 0.10810811
, 0.65306122, 0.23387097, 0.6728972 ,
1572 0.01123596, 0.61494253, 0.73230088, 0.
6122449 ])}
1573 val epoch results {'accuracy': 0.6569444444444444
, 'f1_weighted': 0.620607502448264, 'f1_macro': 0.
461429563256003, 'f1': array([0.86792453, 0
.
, 0.55555556, 0.29126214, 0.5
,
1574 0., 0.69565217, 0.72965116, 0.
51282051]), 'precision': array([0.85981308, 0
.
, 0.625 , 0.57692308, 0.41509434,
```

```
1575      0.          , 0.76190476, 0.62907268, 0.625
           ], 'recall': array([0.87619048, 0.          , 0
           .5          , 0.19480519, 0.62857143,
1576      0.          , 0.64          , 0.86851211, 0.
           43478261])}
1577 17100it [05:20, 53.37it/s]
1578 []
1579 Downloading data files: 100%|██████████| 1/1 [00:00
   <?, ?it/s]
1580 Extracting data files: 100%|██████████| 1/1 [00:00<
   00:00, 164.22it/s]
1581  0%|          | 0/1 [00:00<?, ?it/s]Downloading
   and preparing dataset csv/default to C:/Users/admin
   /.cache/huggingface/datasets/csv/default-
   22449057f8fb225/0.0.0/
   6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
   53bcc7ec513e1...
1582 Dataset csv downloaded and prepared to C:/Users/
   admin/.cache/huggingface/datasets/csv/default-
   22449057f8fb225/0.0.0/
   6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
   53bcc7ec513e1. Subsequent calls will reuse this
   data.
1583 100%|██████████| 1/1 [00:00<00:00, 98.69it/s]
1584 Downloading data files: 100%|██████████| 1/1 [00:00
   <?, ?it/s]
1585 Extracting data files: 100%|██████████| 1/1 [00:00<
   00:00, 167.28it/s]
1586 Generating train split: 0 examples [00:00, ?
   examples/s]Downloading and preparing dataset csv/
   default to C:/Users/admin/.cache/huggingface/
   datasets/csv/default-f69022d30233b853/0.0.0/
   6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
   53bcc7ec513e1...
1587 100%|██████████| 1/1 [00:00<00:00, 62.50it/s]
1588 Dataset csv downloaded and prepared to C:/Users/
   admin/.cache/huggingface/datasets/csv/default-
   f69022d30233b853/0.0.0/
   6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
   53bcc7ec513e1. Subsequent calls will reuse this
   data.
```

```
1589 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1590 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 134.56it/s]
1591 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-6b8df873055cfe40/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1592 100%|██████████| 1/1 [00:00<00:00, 97.08it/s]
1593 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    6b8df873055cfe40/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1594 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1595 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 111.12it/s]
1596 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-f1094705118846f6/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1597 100%|██████████| 1/1 [00:00<00:00, 86.83it/s]
1598 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    f1094705118846f6/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1599 t is : 10
1600 addlen is: 5000
1601
1602 Process finished with exit code 0
1603
```