

```
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_no_818  
3 len test: 1605  
4 len train*val 3211  
5 len unxep 11241  
6 len train 2408  
7 len val 803  
8 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
46104e77d2a0864f/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
9 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
10 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 10.00it/s]  
11 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-46104e77d2a0864f/0.  
.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1. Subsequent calls will reuse this data.  
12 100%|██████████| 1/1 [00:00<00:00, 30.86it/s]  
13 11241  
14 torch.Size([11241, 27])  
15 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
16 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-3837bcb7453223bb/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
17 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 18.52it/s]  
18 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-3837bcb7453223bb/0.0
```

```
18 .0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1. Subsequent calls will reuse this data.
19 100%|██████████| 1/1 [00:00<00:00, 21.74it/s]
20 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 994.85it/s]
21 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-6a691f235d76cc58/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1...
22 Extracting data files: 100%|██████████| 1/1 [00:00<00
:00, 125.06it/s]
23 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-6a691f235d76cc58/0.0
.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1. Subsequent calls will reuse this data.
24 100%|██████████| 1/1 [00:00<00:00, 29.42it/s]
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_no_818
31 rs_add_no_818
32 rs_add_no_818
33 rs_add_no_818
34 rs_add_no_818
35 rs_add_no_818
36 rs_add_no_818
37 rs_add_no_818
38 234.0
39 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
40 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1247.19it/s]
41 Extracting data files: 100%|██████████| 1/1 [00:00<00
:00, 667.46it/s]
42 0%|          | 0/1 [00:00<?, ?it/s]Downloading and
```

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42 preparing dataset csv/default to C:/Users/admin/.  
cache/huggingface/datasets/csv/default-  
a9c2e71a73b8482b/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
43 Dataset csv downloaded and prepared to C:/Users/admin  
.cache/huggingface/datasets/csv/default-  
a9c2e71a73b8482b/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1. Subsequent calls will reuse this data.  
44 100%|██████████| 1/1 [00:00<00:00, 36.87it/s]  
45 test len 14445  
46 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
47 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 117.57it/s]  
48 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
880df07f3d2ff2e2/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
49 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-880df07f3d2ff2e2/0.0  
.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1. Subsequent calls will reuse this data.  
50 100%|██████████| 1/1 [00:00<00:00, 29.41it/s]  
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-  
0efff1eaa6d85dae/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
55 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 1999.19it/s]  
56 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 1000.07it/s]
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57 100%|██████████| 1/1 [00:00<00:00, 90.92it/s]
58 Dataset csv downloaded and prepared to C:/Users/admin
/.cache/huggingface/datasets/csv/default-
0efff1eaa6d85dae/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1. Subsequent calls will reuse this data.
59 val len 7227
60 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
4b4884b4376187ae/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
bcc7ec513e1...
61 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
62 Extracting data files: 100%|██████████| 1/1 [00:00<00
:00, 124.21it/s]
63 100%|██████████| 1/1 [00:00<00:00, 77.02it/s]
64 Dataset csv downloaded and prepared to C:/Users/admin
/.cache/huggingface/datasets/csv/default-
4b4884b4376187ae/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_no_818
71    5%|█        | 1/20 [00:04<01:33,  4.94s/it]
    rs_add_no_818
72 250it [00:05, 175.05it/s]rs_add_no_818
73 rs_add_no_818
74 rs_add_no_818
75 294it [00:15, 13.25it/s] rs_add_no_818
76 569it [00:15, 110.10it/s]rs_add_no_818
77 rs_add_no_818
78 rs_add_no_818
79 rs_add_no_818
80 872it [00:26, 83.02it/s]rs_add_no_818
81 rs_add_no_818
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82 rs_add_no_818
83 rs_add_no_818
84 1132it [00:36, 61.61it/s]rs_add_no_818
85 rs_add_no_818
86 rs_add_no_818
87 rs_add_no_818
88 1423it [00:46, 75.54it/s]rs_add_no_818
89 rs_add_no_818
90 rs_add_no_818
91 rs_add_no_818
92 1724it [00:56, 81.33it/s]rs_add_no_818
93 rs_add_no_818
94 rs_add_no_818
95 rs_add_no_818
96 2022it [01:07, 79.05it/s]rs_add_no_818
97 rs_add_no_818
98 rs_add_no_818
99 rs_add_no_818
100 2340it [01:17, 87.36it/s]rs_add_no_818
101 rs_add_no_818
102 rs_add_no_818
103 rs_add_no_818
104 2592it [01:27, 58.58it/s]rs_add_no_818
105 rs_add_no_818
106 rs_add_no_818
107 rs_add_no_818
108 2897it [01:37, 92.43it/s]rs_add_no_818
109 rs_add_no_818
110 rs_add_no_818
111 rs_add_no_818
112 3207it [01:47, 85.74it/s]rs_add_no_818
113 rs_add_no_818
114 rs_add_no_818
115 rs_add_no_818
116 3492it [01:57, 59.15it/s]rs_add_no_818
117 rs_add_no_818
118 rs_add_no_818
119 rs_add_no_818
120 3765it [02:07, 59.30it/s]rs_add_no_818
121 rs_add_no_818
122 rs_add_no_818
```

```
123 rs_add_no_818
124 4089it [02:17, 72.38it/s]rs_add_no_818
125 rs_add_no_818
126 rs_add_no_818
127 rs_add_no_818
128 4387it [02:26, 59.74it/s]rs_add_no_818
129 rs_add_no_818
130 rs_add_no_818
131 rs_add_no_818
132 4671it [02:36, 55.19it/s]rs_add_no_818
133 rs_add_no_818
134 rs_add_no_818
135 rs_add_no_818
136 4930it [02:46, 49.02it/s]rs_add_no_818
137 rs_add_no_818
138 rs_add_no_818
139 rs_add_no_818
140 5202it [02:55, 51.50it/s]rs_add_no_818
141 rs_add_no_818
142 rs_add_no_818
143 5275it [03:05, 18.03it/s]rs_add_no_818
144 5565it [03:06, 108.51it/s]rs_add_no_818
145 rs_add_no_818
146 5567it [03:19, 108.51it/s]rs_add_no_818
147 5568it [03:20, 6.19it/s] rs_add_no_818
148 5830it [03:21, 124.56it/s]rs_add_no_818
149 rs_add_no_818
150 epoch number 19
151 rs_add_no_818
152 rs_add_no_818
153 5860it [03:39, 124.56it/s]rs_add_no_818
154 rs_add_no_818
155 global t is : 0
156 5860it [03:45, 25.93it/s]
157 test epoch results {'accuracy': 0.4666666666666667
, 'f1_weighted': 0.38275704654023945, 'f1_macro': 0.
2584988681096172, 'f1': array([0.77806789, 0
. , 0. , 0.08333333, 0.01843318,
158 0. , 0.40715884, 0.56652361, 0.
47297297]), 'precision': array([0.79255319, 0
. , 0. , 0.3 , 0.66666667,
```

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159      0.          , 0.33333333, 0.41860465, 0.7
           ], 'recall': array([0.76410256, 0.          ,
160      0.          , 0.0483871 , 0.00934579,
161 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])}
163 []
164 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]
165 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 142.19it/s]
166 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-3fc1f7a079b58acb/0.0.0/
167 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
168 3bcc7ec513e1...
169 100%|██████████| 1/1 [00:00<00:00, 83.04it/s]
170 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-3fc1f7a079b58acb/0.0.0/
171 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
172 3bcc7ec513e1. Subsequent calls will reuse this data.
173 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]
174 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-5eb8e80fd18e0340/0.0.0/
175 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
176 3bcc7ec513e1...
177 Extracting data files: 100%|██████████| 1/1 [00:00<
```

```
173 00:00, 111.57it/s]
174 100%|██████████| 1/1 [00:00<00:00, 71.19it/s]
175 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
5eb8e80fd18e0340/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
176 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
177 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 110.97it/s]
178 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
577cea7fd663fc7b/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
179 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
577cea7fd663fc7b/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
180 100%|██████████| 1/1 [00:00<00:00, 90.86it/s]
181 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 2020.38it/s]
182 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
b7429dd6ffe8f8cd/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
183 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 10.15it/s]
184 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-b7429dd6ffe8f8cd/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
185 100%|██████████| 1/1 [00:00<00:00, 31.27it/s]
186 t is : 1
187 addlen is: 500
188 noexp_df.shape[0] last 10741
```

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189 unexplained dataset length is:  
190 10741  
191 embedding begin  
192 trian and val dataset length: 25920  
193 rs_add_no_818  
194 rs_add_no_818  
195 rs_add_no_818  
196 rs_add_no_818  
197 rs_add_no_818  
198 rs_add_no_818  
199 rs_add_no_818  
200 rs_add_no_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-a9c2e71a73b8482b/0.  
0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1)  
204 100%|██████████| 1/1 [00:00<00:00, 499.44it/s]  
205 test len 14445  
206 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 1778.75it/s]  
207 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 145.82it/s]  
208 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
fa4871e05c6bc773/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
209 100%|██████████| 1/1 [00:00<00:00, 99.65it/s]  
210 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
fa4871e05c6bc773/0.0.0/  
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/
    huggingface/datasets/csv/default-0efff1eaa6d85dae/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1)
215 100%|██████████| 1/1 [00:00<00:00, 502.73it/s]
216 val len 7227
217 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
218 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 125.01it/s]
219 Downloading and preparing dataset csv/default to C:/
    Users/admin/.cache/huggingface/datasets/csv/default-
    59243fa43f08aa8e/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
220 100%|██████████| 1/1 [00:00<00:00, 83.04it/s]
221 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    59243fa43f08aa8e/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_no_818
228 rs_add_no_818
229 360it [00:08, 126.94it/s]rs_add_no_818
230 rs_add_no_818
231 rs_add_no_818
232 rs_add_no_818
233 716it [00:21, 63.27it/s]rs_add_no_818
234 rs_add_no_818
235 rs_add_no_818
236 rs_add_no_818
237 1023it [00:35, 44.56it/s]rs_add_no_818
238 rs_add_no_818
239 rs_add_no_818
```

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240 1081it [00:48, 13.94it/s]rs_add_no_818
241 1394it [00:48, 59.49it/s]rs_add_no_818
242 rs_add_no_818
243 rs_add_no_818
244 rs_add_no_818
245 1719it [01:01, 47.18it/s]rs_add_no_818
246 rs_add_no_818
247 rs_add_no_818
248 1801it [01:14, 15.94it/s]rs_add_no_818
249 2131it [01:15, 64.72it/s]rs_add_no_818
250 rs_add_no_818
251 rs_add_no_818
252 2161it [01:28, 14.00it/s]rs_add_no_818
253 2486it [01:28, 63.08it/s]rs_add_no_818
254 rs_add_no_818
255 rs_add_no_818
256 rs_add_no_818
257 2869it [01:41, 63.07it/s]rs_add_no_818
258 rs_add_no_818
259 rs_add_no_818
260 rs_add_no_818
261 3239it [01:55, 60.15it/s]rs_add_no_818
262 rs_add_no_818
263 rs_add_no_818
264 3240it [02:07, 60.15it/s]rs_add_no_818
265 3579it [02:10, 99.97it/s]rs_add_no_818
266 rs_add_no_818
267 rs_add_no_818
268 rs_add_no_818
269 3881it [02:23, 47.01it/s]rs_add_no_818
270 rs_add_no_818
271 rs_add_no_818
272 rs_add_no_818
273 4283it [02:37, 63.09it/s]rs_add_no_818
274 rs_add_no_818
275 rs_add_no_818
276 4321it [02:49, 14.18it/s]rs_add_no_818
277 4647it [02:50, 64.83it/s]rs_add_no_818
278 rs_add_no_818
279 rs_add_no_818
280 rs_add_no_818
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281 4973it [03:03, 47.66it/s]rs_add_no_818
282 rs_add_no_818
283 rs_add_no_818
284 rs_add_no_818
285 5397it [03:18, 78.79it/s]rs_add_no_818
286 rs_add_no_818
287 rs_add_no_818
288 rs_add_no_818
289 5714it [03:35, 46.67it/s]rs_add_no_818
290 rs_add_no_818
291 rs_add_no_818
292 5761it [03:48, 12.01it/s]rs_add_no_818
293 6047it [03:48, 56.01it/s]rs_add_no_818
294 rs_add_no_818
295 rs_add_no_818
296 rs_add_no_818
297 6410it [04:02, 57.57it/s]rs_add_no_818
298 rs_add_no_818
299 rs_add_no_818
300 rs_add_no_818
301 6785it [04:16, 59.32it/s]rs_add_no_818
302 rs_add_no_818
303 rs_add_no_818
304 6841it [04:31, 13.17it/s]rs_add_no_818
305 7156it [04:31, 66.84it/s]rs_add_no_818
306 rs_add_no_818
307 epoch number 19
308 rs_add_no_818
309 rs_add_no_818
310 rs_add_no_818
311 rs_add_no_818
312 global t is : 1
313 test epoch results {'accuracy': 0.5196078431372549
, 'f1_weighted': 0.4713781642181624, 'f1_macro': 0.
34088456922821414, 'f1': array([0.79069767, 0
., 0.11320755, 0.12658228, 0.45730028,
314 0. , 0.4902507 , 0.58198614, 0.
50793651]), 'precision': array([0.796875 , 0
., 0.75 , 0.29411765, 0.55704698,
315 0. , 0.47567568, 0.44628099, 0.
67226891]), 'recall': array([0.78461538, 0
```

```
315 . , 0.06122449, 0.08064516, 0.38785047,  
316 0. , 0.50574713, 0.83628319, 0.  
40816327])}  
317 val epoch results {'accuracy': 0.611111111111112, '  
f1_weighted': 0.5518459666151753, 'f1_macro': 0.  
3626681574937219, 'f1': array([0.82692308, 0  
. , 0.18181818, 0.13333333, 0.47761194,  
318 0. , 0.52238806, 0.70712401, 0.  
41481481]), 'precision': array([0.83495146, 0  
. , 1. , 0.46153846, 0.5 ,  
319 0. , 0.59322034, 0.57142857, 0.  
65116279]), 'recall': array([0.81904762, 0  
. , 0.1 , 0.07792208, 0.45714286,  
320 0. , 0.46666667, 0.92733564, 0.  
30434783])}  
321 7200it [04:47, 25.06it/s]  
322 []  
323 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
324 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 123.26it/s]  
325 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
bab267b671271cd/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
326 100%|██████████| 1/1 [00:00<00:00, 81.14it/s]  
327 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
bab267b671271cd/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, 100.86it/s]  
330 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
d2b8280731c77b34/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...
```

```
331 100%|██████████| 1/1 [00:00<00:00, 83.33it/s]
332 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
d2b8280731c77b34/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
333 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
334 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
b8858788d5c7c319/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
335 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 126.55it/s]
336 100%|██████████| 1/1 [00:00<00:00, 98.74it/s]
337 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
b8858788d5c7c319/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
338 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1953.56it/s]
339 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
c9f3534d86f5b4e4/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
340 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 7.41it/s]
341 100%|██████████| 1/1 [00:00<00:00, 82.28it/s]
342 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
c9f3534d86f5b4e4/0.0.0/
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: 29970
350 rs_add_no_818
351 rs_add_no_818
352 rs_add_no_818
353 rs_add_no_818
354 rs_add_no_818
355 rs_add_no_818
356 rs_add_no_818
357 rs_add_no_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-a9c2e71a73b8482b/0.
0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
361 100%|██████████| 1/1 [00:00<00:00, 499.74it/s]
362 test len 14445
363 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
5d967fec717b6db3/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
364 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
365 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 111.10it/s]
366 100%|██████████| 1/1 [00:00<00:00, 76.92it/s]
367 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
5d967fec717b6db3/0.0.0/
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/
huggingface/datasets/csv/default-0eff1eaa6d85dae/0.
```

```
371 0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
372 100%|██████████| 1/1 [00:00<00:00, 1000.07it/s]
373 val len 7227
374 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1002.70it/s]
375 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 125.00it/s]
376 Generating train split: 0 examples [00:00, ?
examples/s]Downloading and preparing dataset csv/
default to C:/Users/admin/.cache/huggingface/
datasets/csv/default-20a89d201ea38f41/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
377 100%|██████████| 1/1 [00:00<00:00, 110.98it/s]
378 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
20a89d201ea38f41/0.0.0/
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_no_818
385 rs_add_no_818
386 380it [00:08, 128.59it/s]rs_add_no_818
387 rs_add_no_818
388 rs_add_no_818
389 rs_add_no_818
390 769it [00:21, 69.35it/s]rs_add_no_818
391 rs_add_no_818
392 rs_add_no_818
393 rs_add_no_818
394 1177it [00:35, 66.33it/s]rs_add_no_818
395 rs_add_no_818
396 rs_add_no_818
397 rs_add_no_818
```

```
398 1600it [00:48, 80.48it/s]rs_add_no_818
399 rs_add_no_818
400 rs_add_no_818
401 1669it [01:02, 15.17it/s]rs_add_no_818
402 2053it [01:02, 87.76it/s]rs_add_no_818
403 rs_add_no_818
404 rs_add_no_818
405 rs_add_no_818
406 2442it [01:16, 66.86it/s]rs_add_no_818
407 rs_add_no_818
408 rs_add_no_818
409 rs_add_no_818
410 2852it [01:29, 68.94it/s]rs_add_no_818
411 rs_add_no_818
412 rs_add_no_818
413 2920it [01:43, 16.18it/s]rs_add_no_818
414 3327it [01:43, 90.78it/s]rs_add_no_818
415 rs_add_no_818
416 rs_add_no_818
417 rs_add_no_818
418 3745it [01:57, 71.23it/s]rs_add_no_818
419 rs_add_no_818
420 rs_add_no_818
421 rs_add_no_818
422 4162it [02:10, 68.58it/s]rs_add_no_818
423 rs_add_no_818
424 rs_add_no_818
425 4171it [02:23, 12.96it/s]rs_add_no_818
426 4505it [02:23, 65.15it/s]rs_add_no_818
427 rs_add_no_818
428 rs_add_no_818
429 rs_add_no_818
430 4996it [02:37, 94.23it/s]rs_add_no_818
431 rs_add_no_818
432 rs_add_no_818
433 rs_add_no_818
434 5395it [02:50, 69.05it/s]rs_add_no_818
435 rs_add_no_818
436 rs_add_no_818
437 5422it [03:03, 13.82it/s]rs_add_no_818
438 5819it [03:03, 88.93it/s]rs_add_no_818
```

```
439 rs_add_no_818
440 rs_add_no_818
441 rs_add_no_818
442 6214it [03:17, 69.13it/s]rs_add_no_818
443 rs_add_no_818
444 rs_add_no_818
445 rs_add_no_818
446 6607it [03:30, 65.62it/s]rs_add_no_818
447 rs_add_no_818
448 rs_add_no_818
449 6673it [03:43, 15.79it/s]rs_add_no_818
450 7001it [03:43, 66.84it/s]rs_add_no_818
451 rs_add_no_818
452 rs_add_no_818
453 rs_add_no_818
454 7502it [03:57, 94.21it/s]rs_add_no_818
455 rs_add_no_818
456 rs_add_no_818
457 rs_add_no_818
458 7913it [04:10, 71.23it/s]rs_add_no_818
459 rs_add_no_818
460 rs_add_no_818
461 7924it [04:24, 12.93it/s]rs_add_no_818
462 8252it [04:24, 63.79it/s]rs_add_no_818
463 rs_add_no_818
464 epoch number 19
465 rs_add_no_818
466 rs_add_no_818
467 rs_add_no_818
468 rs_add_no_818
469 global t is : 2
470 test epoch results {'accuracy': 0.5477124183006536
, 'f1_weighted': 0.5042354670570518, 'f1_macro': 0.
38062009033272787, 'f1': array([0.81795511, 0
., 0.27692308, 0.13414634, 0.52955083,
471 0. , 0.54005935, 0.6 , 0.
52694611]), 'precision': array([0.7961165 , 0
., 0.5625 , 0.275 , 0.53588517,
472 0. , 0.55828221, 0.47889182, 0.
63768116]), 'recall': array([0.84102564, 0
., 0.18367347, 0.08870968, 0.52336449,
```

```
473          0.        , 0.52298851, 0.80309735, 0.  
44897959])}  
474 val epoch results {'accuracy': 0.6222222222222222, '  
f1_weighted': 0.5662134358878887, 'f1_macro': 0.  
3982948132525062, 'f1': array([0.8440367 , 0  
.        , 0.46153846, 0.11235955, 0.45333333,  
475          0.        , 0.51162791, 0.71564626, 0.  
48611111]), 'precision': array([0.81415929, 0  
.        , 1.        , 0.41666667, 0.425        ,  
476          0.        , 0.61111111, 0.5896861 , 0.  
67307692]), 'recall': array([0.87619048, 0  
.        , 0.3        , 0.06493506, 0.48571429,  
477          0.        , 0.44        , 0.9100346 , 0.  
38043478])}  
478 8340it [04:39, 29.87it/s]  
479 []  
480 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
a09f93492e300e39/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
481 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
482 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 124.97it/s]  
483 100%|██████████| 1/1 [00:00<00:00, 100.26it/s]  
484 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
a09f93492e300e39/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
485 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
486 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 133.27it/s]  
487 Generating train split: 0 examples [00:00, ?  
examples/s]Downloading and preparing dataset csv/  
default to C:/Users/admin/.cache/huggingface/  
datasets/csv/default-d4d36c7bbc538a3f/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...
```

```
488 100%|██████████| 1/1 [00:00<00:00, 83.30it/s]
489 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
d4d36c7bbc538a3f/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
490 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
491 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
6ffac45060982468/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
492 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 91.28it/s]
493 100%|██████████| 1/1 [00:00<00:00, 83.34it/s]
494 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
6ffac45060982468/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
495 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
496 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
ecaa70590f872ff6/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
497 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 9.46it/s]
498 100%|██████████| 1/1 [00:00<00:00, 55.42it/s]
499 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
ecaa70590f872ff6/0.0.0/
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: 34830
507 rs_add_no_818
508 rs_add_no_818
509 rs_add_no_818
510 rs_add_no_818
511 rs_add_no_818
512 rs_add_no_818
513 rs_add_no_818
514 rs_add_no_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-a9c2e71a73b8482b/0.
0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
518 100%|██████████| 1/1 [00:00<00:00, 368.02it/s]
519 test len 14445
520 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1999.19it/s]
521 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 133.79it/s]
522 Generating train split: 0 examples [00:00, ?
examples/s]Downloading and preparing dataset csv/
default to C:/Users/admin/.cache/huggingface/
datasets/csv/default-1faec5105f59b28d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
523 100%|██████████| 1/1 [00:00<00:00, 76.93it/s]
524 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
1faec5105f59b28d/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/
```

```
528 huggingface/datasets/csv/default-0efff1eaa6d85dae/0.  
0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1)  
529 100%|██████████| 1/1 [00:00<00:00, 500.16it/s]  
530 val len 7227  
531 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
532 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 111.11it/s]  
533 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
c910116756d18ece/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
534 100%|██████████| 1/1 [00:00<00:00, 65.18it/s]  
535 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
c910116756d18ece/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_no_818  
542 rs_add_no_818  
543 418it [00:15, 84.12it/s]rs_add_no_818  
544 rs_add_no_818  
545 rs_add_no_818  
546 rs_add_no_818  
547 926it [00:28, 99.76it/s]rs_add_no_818  
548 rs_add_no_818  
549 rs_add_no_818  
550 969it [00:41, 16.04it/s]rs_add_no_818  
551 1392it [00:41, 100.73it/s]rs_add_no_818  
552 rs_add_no_818  
553 rs_add_no_818  
554 rs_add_no_818
```

```
555 1882it [00:55, 97.27it/s]rs_add_no_818
556 rs_add_no_818
557 rs_add_no_818
558 rs_add_no_818
559 2354it [01:08, 95.93it/s]rs_add_no_818
560 rs_add_no_818
561 rs_add_no_818
562 2421it [01:21, 17.13it/s]rs_add_no_818
563 2898it [01:21, 130.20it/s]rs_add_no_818
564 rs_add_no_818
565 rs_add_no_818
566 rs_add_no_818
567 3311it [01:35, 73.50it/s]rs_add_no_818
568 rs_add_no_818
569 rs_add_no_818
570 rs_add_no_818
571 3808it [01:49, 94.51it/s]rs_add_no_818
572 rs_add_no_818
573 rs_add_no_818
574 3873it [02:02, 17.17it/s]rs_add_no_818
575 4288it [02:02, 98.23it/s]rs_add_no_818
576 rs_add_no_818
577 rs_add_no_818
578 rs_add_no_818
579 4787it [02:16, 99.72it/s]rs_add_no_818
580 rs_add_no_818
581 rs_add_no_818
582 rs_add_no_818
583 5300it [02:30, 112.56it/s]rs_add_no_818
584 rs_add_no_818
585 rs_add_no_818
586 rs_add_no_818
587 5787it [02:45, 110.19it/s]rs_add_no_818
588 rs_add_no_818
589 rs_add_no_818
590 rs_add_no_818
591 6246it [02:58, 93.53it/s]rs_add_no_818
592 rs_add_no_818
593 rs_add_no_818
594 6293it [03:11, 15.35it/s]rs_add_no_818
595 6761it [03:12, 127.12it/s]rs_add_no_818
```

```
596 rs_add_no_818
597 rs_add_no_818
598 rs_add_no_818
599 7220it [03:25, 92.24it/s]rs_add_no_818
600 rs_add_no_818
601 rs_add_no_818
602 rs_add_no_818
603 7700it [03:39, 96.65it/s]rs_add_no_818
604 rs_add_no_818
605 rs_add_no_818
606 7745it [03:51, 15.70it/s]rs_add_no_818
607 8228it [03:52, 131.79it/s]rs_add_no_818
608 rs_add_no_818
609 rs_add_no_818
610 rs_add_no_818
611 8644it [04:05, 74.49it/s]rs_add_no_818
612 rs_add_no_818
613 rs_add_no_818
614 rs_add_no_818
615 9144it [04:19, 96.64it/s]rs_add_no_818
616 rs_add_no_818
617 rs_add_no_818
618 9197it [04:32, 16.48it/s]rs_add_no_818
619 9613it [04:32, 98.53it/s]rs_add_no_818
620 rs_add_no_818
621 epoch number 19
622 rs_add_no_818
623 rs_add_no_818
624 rs_add_no_818
625 rs_add_no_818
626 global t is : 3
627 test epoch results {'accuracy': 0.5522875816993464
, 'f1_weighted': 0.5132590395212477, 'f1_macro': 0.
3982840746385393, 'f1': array([0.8358209 , 0
. , 0.34567901, 0.15584416, 0.53811659,
0.04347826, 0.53846154, 0.59530026, 0.
53185596]), 'precision': array([0.8115942 , 0
. , 0.4375 , 0.4 , 0.51724138,
0.66666667, 0.55487805, 0.49067432, 0.
58181818]), 'recall': array([0.86153846, 0
. , 0.28571429, 0.09677419, 0.56074766,
```

```
630          0.02247191, 0.52298851, 0.75663717, 0.  
        48979592])}  
631 val epoch results {'accuracy': 0.6236111111111111, '  
    f1_weighted': 0.569960009070059, 'f1_macro': 0.  
    3988559410393324, 'f1': array([0.84931507, 0  
        .         , 0.46153846, 0.11494253, 0.43902439,  
632          0.         , 0.51162791, 0.72268908, 0.  
        49056604]), 'precision': array([0.81578947, 0  
        .         , 1.         , 0.5         , 0.38297872,  
633          0.         , 0.61111111, 0.60705882, 0.  
        58208955]), 'recall': array([0.88571429, 0  
        .         , 0.3         , 0.06493506, 0.51428571,  
634          0.         , 0.44         , 0.89273356, 0.  
        42391304])}  
635 9680it [04:48, 33.59it/s]  
636 []  
637 Downloading and preparing dataset csv/default to C:/  
    Users/admin/.cache/huggingface/datasets/csv/default-  
    1c99426ce7179531/0.0.0/  
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
    3bcc7ec513e1...  
638 Downloading data files: 100%|██████████| 1/1 [00:00  
    <?, ?it/s]  
639 Extracting data files: 100%|██████████| 1/1 [00:00<  
    00:00, 144.04it/s]  
640 100%|██████████| 1/1 [00:00<00:00, 100.00it/s]  
641 Dataset csv downloaded and prepared to C:/Users/  
    admin/.cache/huggingface/datasets/csv/default-  
    1c99426ce7179531/0.0.0/  
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
    3bcc7ec513e1. 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-  
    84750560e3351f41/0.0.0/  
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
    3bcc7ec513e1...  
644 Extracting data files: 100%|██████████| 1/1 [00:00<  
    00:00, 142.86it/s]  
645 100%|██████████| 1/1 [00:00<00:00, 100.00it/s]
```

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646 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    84750560e3351f41/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1. Subsequent calls will reuse this data.
647 Downloading data files: 100%|██████████| 1/1 [00:00
    <?, ?it/s]
648 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 126.00it/s]
649 Downloading and preparing dataset csv/default to C:/
    Users/admin/.cache/huggingface/datasets/csv/default-
    657c49675fdff4f2/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
650 100%|██████████| 1/1 [00:00<00:00, 99.82it/s]
651 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    657c49675fdff4f2/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1. Subsequent calls will reuse this data.
652 Downloading data files: 100%|██████████| 1/1 [00:00<
    00:00, 1978.45it/s]
653 Downloading and preparing dataset csv/default to C:/
    Users/admin/.cache/huggingface/datasets/csv/default-
    cc83ca4da32f1dd9/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
654 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 8.73it/s]
655 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
    downloaded and prepared to C:/Users/admin/.cache/
    huggingface/datasets/csv/default-cc83ca4da32f1dd9/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1. Subsequent calls will reuse this data.
656 100%|██████████| 1/1 [00:00<00:00, 60.51it/s]
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: 38880
664 rs_add_no_818
665 rs_add_no_818
666 rs_add_no_818
667 rs_add_no_818
668 rs_add_no_818
669 rs_add_no_818
670 rs_add_no_818
671 rs_add_no_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-a9c2e71a73b8482b/0.
0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
675 100%|██████████| 1/1 [00:00<00:00, 76.90it/s]
676 test len 14445
677 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
c51d3b7f080b07c4/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
678 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
679 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 142.86it/s]
680 100%|██████████| 1/1 [00:00<00:00, 62.50it/s]
681 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
c51d3b7f080b07c4/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
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-0eff1eaa6d85dae/0.
```

```
685 0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
686 100%|██████████| 1/1 [00:00<00:00, 90.54it/s]
687 val len 7227
688 Downloading and preparing dataset csv/default to C:/
  Users/admin/.cache/huggingface/datasets/csv/default-
  9eac445be6f4d274/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
689 Downloading data files: 100%|██████████| 1/1 [00:00
  <?, ?it/s]
690 Extracting data files: 100%|██████████| 1/1 [00:00<
  00:00, 125.01it/s]
691 100%|██████████| 1/1 [00:00<00:00, 66.50it/s]
692 Dataset csv downloaded and prepared to C:/Users/
  admin/.cache/huggingface/datasets/csv/default-
  9eac445be6f4d274/0.0.0/
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_no_818
699 rs_add_no_818
700 467it [00:09, 176.56it/s]rs_add_no_818
701 rs_add_no_818
702 rs_add_no_818
703 541it [00:23, 15.54it/s] rs_add_no_818
704 1048it [00:24, 132.85it/s]rs_add_no_818
705 rs_add_no_818
706 rs_add_no_818
707 rs_add_no_818
708 1567it [00:38, 99.99it/s]rs_add_no_818
709 rs_add_no_818
710 rs_add_no_818
711 1621it [00:52, 16.14it/s]rs_add_no_818
712 2140it [00:53, 133.26it/s]rs_add_no_818
```

```
713 rs_add_no_818
714 rs_add_no_818
715 rs_add_no_818
716 2670it [01:07, 102.48it/s]rs_add_no_818
717 rs_add_no_818
718 rs_add_no_818
719 rs_add_no_818
720 3174it [01:21, 98.38it/s]rs_add_no_818
721 rs_add_no_818
722 rs_add_no_818
723 3241it [01:34, 17.13it/s]rs_add_no_818
724 3728it [01:35, 129.22it/s]rs_add_no_818
725 rs_add_no_818
726 rs_add_no_818
727 rs_add_no_818
728 4305it [01:49, 133.20it/s]rs_add_no_818
729 rs_add_no_818
730 rs_add_no_818
731 4320it [02:02, 133.20it/s]rs_add_no_818
732 4809it [02:03, 131.59it/s]rs_add_no_818
733 rs_add_no_818
734 rs_add_no_818
735 rs_add_no_818
736 5378it [02:17, 130.94it/s]rs_add_no_818
737 rs_add_no_818
738 rs_add_no_818
739 rs_add_no_818
740 5887it [02:31, 101.90it/s]rs_add_no_818
741 rs_add_no_818
742 rs_add_no_818
743 5941it [02:45, 16.00it/s] rs_add_no_818
744 6466it [02:46, 133.91it/s]rs_add_no_818
745 rs_add_no_818
746 rs_add_no_818
747 rs_add_no_818
748 6989it [03:01, 99.59it/s]rs_add_no_818
749 rs_add_no_818
750 rs_add_no_818
751 7020it [03:12, 99.59it/s]rs_add_no_818
752 7560it [03:15, 159.89it/s]rs_add_no_818
753 rs_add_no_818
```

```
754 rs_add_no_818
755 rs_add_no_818
756 8052it [03:29, 100.16it/s]rs_add_no_818
757 rs_add_no_818
758 rs_add_no_818
759 8100it [03:42, 100.16it/s]rs_add_no_818
760 8569it [03:43, 123.23it/s]rs_add_no_818
761 rs_add_no_818
762 rs_add_no_818
763 rs_add_no_818
764 9124it [03:57, 126.72it/s]rs_add_no_818
765 rs_add_no_818
766 rs_add_no_818
767 rs_add_no_818
768 9661it [04:11, 123.74it/s]rs_add_no_818
769 rs_add_no_818
770 rs_add_no_818
771 9721it [04:25, 15.57it/s] rs_add_no_818
772 10190it [04:26, 122.65it/s]rs_add_no_818
773 rs_add_no_818
774 rs_add_no_818
775 rs_add_no_818
776 10796it [04:41, 135.12it/s]rs_add_no_818
777 rs_add_no_818
778 epoch number 19
779 rs_add_no_818
780 rs_add_no_818
781 10800it [04:52, 135.12it/s]rs_add_no_818
782 rs_add_no_818
783 global t is : 4
784 test epoch results {'accuracy': 0.5620915032679739
, 'f1_weighted': 0.526814942389351, 'f1_macro': 0.
4168807720979137, 'f1': array([0.84848485, 0
, 0.39506173, 0.19875776, 0.55097614,
0.06382979, 0.55974843, 0.59808195, 0.5369863
]), 'precision': array([0.8358209 , 0. , 0.5
, 0.43243243, 0.51417004,
0.6 , 0.61805556, 0.49352518, 0.
57988166]), 'recall': array([0.86153846, 0
, 0.32653061, 0.12903226, 0.59345794,
0.03370787, 0.51149425, 0.75884956, 0.5
```

```
787     ]})  
788 val epoch results {'accuracy': 0.625, 'f1_weighted': 0.5739762865382823, 'f1_macro': 0.4085474404942578, 'f1': array([0.85844749, 0. ., 0.53333333, 0.13483146, 0.41860465, 0. ., 0.51612903, 0.72191011, 0.49367089]), 'precision': array([0.8245614 , 0. ., 0.8 , 0.5 , 0.35294118, 0. ., 0.65306122, 0.60756501, 0.59090909]), 'recall': array([0.8952381 , 0. ., 0.4 , 0.07792208, 0.51428571, 0. ., 0.42666667, 0.88927336, 0.42391304])}  
792 10800it [04:56, 36.44it/s]  
793 []  
794 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-738d2f2db128357f/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, 94.72it/s]  
797 100%|██████████| 1/1 [00:00<00:00, 90.43it/s]  
798 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
738d2f2db128357f/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-  
5fddc5a7a762e52c/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
801 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 142.85it/s]  
802 100%|██████████| 1/1 [00:00<00:00, 71.42it/s]  
803 Dataset csv downloaded and prepared to C:/Users/
```

```
803 admin/.cache/huggingface/datasets/csv/default-
5fddc5a7a762e52c/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
804 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 965.32it/s]
805 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-
5420a3a42810775e/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
806 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 90.87it/s]
807 100%|██████████| 1/1 [00:00<00:00, 90.60it/s]
808 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
5420a3a42810775e/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, 133.95it/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-ab88a009831e3ea3/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
812 100%|██████████| 1/1 [00:00<00:00, 68.83it/s]
813 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
ab88a009831e3ea3/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
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: 43740
821 rs_add_no_818
822 rs_add_no_818
823 rs_add_no_818
824 rs_add_no_818
825 rs_add_no_818
826 rs_add_no_818
827 rs_add_no_818
828 rs_add_no_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-a9c2e71a73b8482b/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1)
832 100%|██████████| 1/1 [00:00<00:00, 1000.55it/s]
833 test len 14445
834 Downloading data files: 100%|██████████| 1/1 [00:00
    <?, ?it/s]
835 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 153.69it/s]
836 Generating train split: 0 examples [00:00, ?
    examples/s]Downloading and preparing dataset csv/
    default to C:/Users/admin/.cache/huggingface/
    datasets/csv/default-2ea6757a14504dd6/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
837 100%|██████████| 1/1 [00:00<00:00, 55.56it/s]
838 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    2ea6757a14504dd6/0.0.0/
    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-0eff1eaa6d85dae/0.
```

```
842 0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
843 100%|██████████| 1/1 [00:00<00:00, 999.36it/s]
844 val len 7227
845 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
c12e86e9dc72a97e/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
846 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1000.07it/s]
847 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 124.99it/s]
848 100%|██████████| 1/1 [00:00<00:00, 83.33it/s]
849 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
c12e86e9dc72a97e/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
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_no_818
856 rs_add_no_818
857 593it [00:09, 253.69it/s]rs_add_no_818
858 rs_add_no_818
859 rs_add_no_818
860 rs_add_no_818
861 1166it [00:24, 147.91it/s]rs_add_no_818
862 rs_add_no_818
863 rs_add_no_818
864 1217it [00:37, 14.89it/s] rs_add_no_818
865 1776it [00:38, 181.85it/s]rs_add_no_818
866 rs_add_no_818
867 rs_add_no_818
868 rs_add_no_818
869 2386it [00:52, 173.22it/s]rs_add_no_818
```

```
870 rs_add_no_818
871 rs_add_no_818
872 2432it [01:04, 173.22it/s]rs_add_no_818
873 2988it [01:07, 174.78it/s]rs_add_no_818
874 rs_add_no_818
875 rs_add_no_818
876 rs_add_no_818
877 3617it [01:21, 173.33it/s]rs_add_no_818
878 rs_add_no_818
879 rs_add_no_818
880 3648it [01:34, 173.33it/s]rs_add_no_818
881 4219it [01:35, 174.45it/s]rs_add_no_818
882 rs_add_no_818
883 rs_add_no_818
884 rs_add_no_818
885 4826it [01:50, 135.34it/s]rs_add_no_818
886 rs_add_no_818
887 rs_add_no_818
888 4865it [02:05, 15.41it/s] rs_add_no_818
889 5455it [02:05, 174.24it/s]rs_add_no_818
890 rs_add_no_818
891 rs_add_no_818
892 rs_add_no_818
893 6062it [02:20, 138.26it/s]rs_add_no_818
894 rs_add_no_818
895 rs_add_no_818
896 rs_add_no_818
897 6642it [02:34, 132.70it/s]rs_add_no_818
898 rs_add_no_818
899 rs_add_no_818
900 6689it [02:48, 16.12it/s] rs_add_no_818
901 7227it [02:48, 168.96it/s]rs_add_no_818
902 rs_add_no_818
903 rs_add_no_818
904 rs_add_no_818
905 7863it [03:02, 177.49it/s]rs_add_no_818
906 rs_add_no_818
907 rs_add_no_818
908 7905it [03:16, 15.73it/s] rs_add_no_818
909 8467it [03:17, 176.21it/s]rs_add_no_818
910 rs_add_no_818
```

```
911 rs_add_no_818
912 rs_add_no_818
913 9089it [03:31, 167.38it/s]rs_add_no_818
914 rs_add_no_818
915 rs_add_no_818
916 9121it [03:45, 13.89it/s] rs_add_no_818
917 9635it [03:46, 132.84it/s]rs_add_no_818
918 rs_add_no_818
919 rs_add_no_818
920 rs_add_no_818
921 10328it [04:00, 180.49it/s]rs_add_no_818
922 rs_add_no_818
923 rs_add_no_818
924 rs_add_no_818
925 10917it [04:15, 141.85it/s]rs_add_no_818
926 rs_add_no_818
927 rs_add_no_818
928 rs_add_no_818
929 11483it [04:29, 131.92it/s]rs_add_no_818
930 rs_add_no_818
931 rs_add_no_818
932 rs_add_no_818
933 12117it [04:43, 172.43it/s]rs_add_no_818
934 rs_add_no_818
935 epoch number 19
936 rs_add_no_818
937 rs_add_no_818
938 12160it [04:54, 172.43it/s]rs_add_no_818
939 rs_add_no_818
940 global t is : 5
941 test epoch results {'accuracy': 0.5712418300653594
, 'f1_weighted': 0.5363042034653257, 'f1_macro': 0.
43157389603999025, 'f1': array([0.85063291, 0
. , 0.47727273, 0.2125 , 0.56734694,
0.06451613, 0.56291391, 0.60403863, 0.
54494382]), 'precision': array([0.84 , 0
. , 0.53846154, 0.47222222, 0.50362319,
0.75 , 0.6640625 , 0.5007278 , 0.60625
]), 'recall': array([0.86153846, 0. , 0.
42857143, 0.13709677, 0.64953271,
0.03370787, 0.48850575, 0.76106195, 0.
```

```
944 49489796])}
945 val epoch results {'accuracy': 0.6236111111111111, 'f1_weighted': 0.5757226052634585, 'f1_macro': 0.40721033534258777, 'f1': array([0.85714286, 0.52631579, 0.15555556, 0.39130435, 0.53333333, 0.72624113, 0.475]), 'precision': array([0.83035714, 0.55555556, 0.53846154, 0.31578947, 0.71111111, 0.61538462, 0.55882353]), 'recall': array([0.88571429, 0.5, 0.09090909, 0.51428571, 0.42666667, 0.88581315, 0.41304348])}
949 12160it [05:00, 40.51it/s]
950 []
951 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-85731267bd563167/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
952 Downloading data files: 100%|██████████| 1/1 [00:00<00:00, 993.20it/s]
953 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 125.11it/s]
954 100%|██████████| 1/1 [00:00<00:00, 99.90it/s]
955 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-85731267bd563167/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. 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-0e31bc2bd3e32263/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
958 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 141.70it/s]
959 100%|██████████| 1/1 [00:00<00:00, 71.42it/s]
960 Dataset csv downloaded and prepared to C:/Users/
```

```
960 admin/.cache/huggingface/datasets/csv/default-
0e31bc2bd3e32263/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
961 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
962 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-8d612b4b6a6e24a8/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
963 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 111.10it/s]
964 100%|██████████| 1/1 [00:00<00:00, 99.94it/s]
965 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
8d612b4b6a6e24a8/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
966 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
967 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 110.43it/s]
968 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-f8a2f4690e69bc85/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
969 100%|██████████| 1/1 [00:00<00:00, 83.00it/s]
970 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
f8a2f4690e69bc85/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. 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: 48600
978 rs_add_no_818
979 rs_add_no_818
980 rs_add_no_818
981 rs_add_no_818
982 rs_add_no_818
983 rs_add_no_818
984 rs_add_no_818
985 rs_add_no_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-a9c2e71a73b8482b/0
.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1)
989 100%|██████████| 1/1 [00:00<00:00, 999.60it/s]
990 test len 14445
991 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-6c56b4aef16eaef0/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
992 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
993 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 142.88it/s]
994 100%|██████████| 1/1 [00:00<00:00, 55.53it/s]
995 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
6c56b4aef16eaef0/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
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-0eff1eaa6d85dae/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1)
1000 100%|██████████| 1/1 [00:00<00:00, 988.29it/s]
1001 val len 7227
1002 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-5e98b2d238693924/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1003 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1004 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 124.97it/s]
1005 100%|██████████| 1/1 [00:00<00:00, 83.35it/s]
1006 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    5e98b2d238693924/0.0.0/
    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_no_818
1013 rs_add_no_818
1014 663it [00:08, 341.79it/s]rs_add_no_818
1015 rs_add_no_818
1016 rs_add_no_818
1017 rs_add_no_818
1018 1337it [00:25, 284.65it/s]rs_add_no_818
1019 rs_add_no_818
1020 rs_add_no_818
1021 1351it [00:41, 7.66it/s] rs_add_no_818
1022 2023it [00:43, 382.45it/s]rs_add_no_818
1023 rs_add_no_818
```

```
1024 rs_add_no_818
1025 rs_add_no_818
1026 2672it [00:57, 202.89it/s]rs_add_no_818
1027 rs_add_no_818
1028 rs_add_no_818
1029 2700it [01:08, 202.89it/s]rs_add_no_818
1030 3327it [01:12, 241.18it/s]rs_add_no_818
1031 rs_add_no_818
1032 rs_add_no_818
1033 rs_add_no_818
1034 4005it [01:27, 206.54it/s]rs_add_no_818
1035 rs_add_no_818
1036 rs_add_no_818
1037 4050it [01:38, 206.54it/s]rs_add_no_818
1038 4694it [01:42, 241.51it/s]rs_add_no_818
1039 rs_add_no_818
1040 rs_add_no_818
1041 rs_add_no_818
1042 5381it [01:57, 186.95it/s]rs_add_no_818
1043 rs_add_no_818
1044 rs_add_no_818
1045 5401it [02:11, 14.11it/s] rs_add_no_818
1046 6008it [02:12, 182.12it/s]rs_add_no_818
1047 rs_add_no_818
1048 rs_add_no_818
1049 rs_add_no_818
1050 6691it [02:27, 178.85it/s]rs_add_no_818
1051 rs_add_no_818
1052 rs_add_no_818
1053 6751it [02:42, 16.53it/s] rs_add_no_818
1054 7355it [02:43, 178.48it/s]rs_add_no_818
1055 rs_add_no_818
1056 rs_add_no_818
1057 rs_add_no_818
1058 8088it [02:58, 268.66it/s]rs_add_no_818
1059 rs_add_no_818
1060 rs_add_no_818
1061 rs_add_no_818
1062 8757it [03:13, 216.12it/s]rs_add_no_818
1063 rs_add_no_818
1064 rs_add_no_818
```

```
1065 rs_add_no_818
1066 9429it [03:28, 235.97it/s]rs_add_no_818
1067 rs_add_no_818
1068 rs_add_no_818
1069 rs_add_no_818
1070 10097it [03:43, 207.58it/s]rs_add_no_818
1071 rs_add_no_818
1072 rs_add_no_818
1073 rs_add_no_818
1074 10754it [03:57, 202.95it/s]rs_add_no_818
1075 rs_add_no_818
1076 rs_add_no_818
1077 10800it [04:08, 202.95it/s]rs_add_no_818
1078 11432it [04:12, 239.91it/s]rs_add_no_818
1079 rs_add_no_818
1080 rs_add_no_818
1081 rs_add_no_818
1082 12125it [04:27, 238.47it/s]rs_add_no_818
1083 rs_add_no_818
1084 rs_add_no_818
1085 12151it [04:41, 12.39it/s] rs_add_no_818
1086 12767it [04:42, 218.39it/s]rs_add_no_818
1087 rs_add_no_818
1088 rs_add_no_818
1089 rs_add_no_818
1090 13453it [04:57, 184.43it/s]rs_add_no_818
1091 rs_add_no_818
1092 epoch number 19
1093 rs_add_no_818
1094 rs_add_no_818
1095 13500it [05:08, 184.43it/s]rs_add_no_818
1096 rs_add_no_818
1097 global t is : 6
1098 test epoch results {'accuracy': 0.5699346405228758
    , 'f1_weighted': 0.5345945281523785, 'f1_macro': 0.
43660665052827663, 'f1': array([0.845      , 0
.          , 0.55319149, 0.19354839, 0.56306306,
1099      0.06382979, 0.57680251, 0.59859155, 0.
53543307]), 'precision': array([0.82439024, 0
.          , 0.57777778, 0.48387097, 0.54347826,
1100      0.6      , 0.63448276, 0.49707602, 0.
```

```
1100 55135135]), 'recall': array([0.86666667, 0
1101     .           , 0.53061224, 0.12096774, 0.58411215,
1102     0.03370787, 0.52873563, 0.75221239, 0.
1103     52040816])}
1104 val epoch results {'accuracy': 0.6291666666666667
1105     , 'f1_weighted': 0.576829908452107, 'f1_macro': 0.
1106     4098452019848078, 'f1': array([0.87782805, 0
1107     .           , 0.52631579, 0.13953488, 0.425
1108     .           , 0.50793651, 0.7241867, 0.
1109     48780488]), 'precision': array([0.8362069, 0
1110     .           , 0.55555556, 0.66666667, 0.37777778,
1111     0.           , 0.62745098, 0.61244019, 0.
1112     55555556]), 'recall': array([0.92380952, 0
1113     .           , 0.5           , 0.07792208, 0.48571429,
1114     0.           , 0.42666667, 0.88581315, 0.
1115     43478261])}
1116 13500it [05:14, 42.96it/s]
1117 []
1118 Downloading and preparing dataset csv/default to C
1119     :/Users/admin/.cache/huggingface/datasets/csv/
1120     default-d258a99040efb181/0.0.0/
1121     6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
1122     53bcc7ec513e1...
1123 Downloading data files: 100%|██████████| 1/1 [00:00
1124     <, ?it/s]
1125 Extracting data files: 100%|██████████| 1/1 [00:00<
1126     00:00, 142.07it/s]
1127 100%|██████████| 1/1 [00:00<00:00, 83.59it/s]
1128 Dataset csv downloaded and prepared to C:/Users/
1129     admin/.cache/huggingface/datasets/csv/default-
1130     d258a99040efb181/0.0.0/
1131     6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
1132     53bcc7ec513e1. Subsequent calls will reuse this
1133     data.
1134 Downloading data files: 100%|██████████| 1/1 [00:00
1135     <, ?it/s]
1136 Downloading and preparing dataset csv/default to C
1137     :/Users/admin/.cache/huggingface/datasets/csv/
1138     default-29ebaee5b463bff6/0.0.0/
1139     6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
1140     53bcc7ec513e1...
```

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1115 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 142.81it/s]
1116 100%|██████████| 1/1 [00:00<00:00, 82.88it/s]
1117 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-29ebaee5b463bff6/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. Subsequent calls will reuse this data.
1118 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]
1119 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 124.96it/s]
1120 Generating train split: 0 examples [00:00, ? examples/s]Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-18e18b17155f1b4e/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
1121 100%|██████████| 1/1 [00:00<00:00, 99.84it/s]
1122 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-18e18b17155f1b4e/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. Subsequent calls will reuse this data.
1123 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]
1124 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-cb00963ddd35f087/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
1125 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 124.36it/s]
1126 100%|██████████| 1/1 [00:00<00:00, 83.82it/s]
1127 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-cb00963ddd35f087/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. Subsequent calls will reuse this
```

```
1127 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: 52650  
1135 rs_add_no_818  
1136 rs_add_no_818  
1137 rs_add_no_818  
1138 rs_add_no_818  
1139 rs_add_no_818  
1140 rs_add_no_818  
1141 rs_add_no_818  
1142 rs_add_no_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-a9c2e71a73b8482b/0  
.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1)  
1146 100%|██████████| 1/1 [00:00<00:00, 994.38it/s]  
1147 test len 14445  
1148 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-34a2cb807a346f28/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1149 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1150 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 142.59it/s]  
1151 100%|██████████| 1/1 [00:00<00:00, 47.62it/s]  
1152 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
34a2cb807a346f28/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this
```

```
1152 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-0efff1eaa6d85dae/0  
.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1)  
1157 100%|██████████| 1/1 [00:00<00:00, 995.09it/s]  
1158 val len 7227  
1159 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-6351875e2d2e6577/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1160 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1161 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 125.88it/s]  
1162 100%|██████████| 1/1 [00:00<00:00, 90.91it/s]  
1163 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
6351875e2d2e6577/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
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_no_818  
1170 rs_add_no_818  
1171 714it [00:10, 348.85it/s]rs_add_no_818  
1172 rs_add_no_818  
1173 rs_add_no_818  
1174 rs_add_no_818  
1175 1433it [00:27, 296.42it/s]rs_add_no_818
```

```
1176 rs_add_no_818
1177 rs_add_no_818
1178 rs_add_no_818
1179 2193it [00:44, 436.57it/s]rs_add_no_818
1180 rs_add_no_818
1181 rs_add_no_818
1182 2197it [00:58, 7.78it/s] rs_add_no_818
1183 2901it [01:00, 316.28it/s]rs_add_no_818
1184 rs_add_no_818
1185 rs_add_no_818
1186 rs_add_no_818
1187 3619it [01:15, 286.89it/s]rs_add_no_818
1188 rs_add_no_818
1189 rs_add_no_818
1190 3661it [01:30, 12.86it/s] rs_add_no_818
1191 4359it [01:31, 352.33it/s]rs_add_no_818
1192 rs_add_no_818
1193 rs_add_no_818
1194 rs_add_no_818
1195 5092it [01:47, 367.76it/s]rs_add_no_818
1196 rs_add_no_818
1197 rs_add_no_818
1198 5124it [01:57, 367.76it/s]rs_add_no_818
1199 5810it [02:02, 358.61it/s]rs_add_no_818
1200 rs_add_no_818
1201 rs_add_no_818
1202 rs_add_no_818
1203 6568it [02:18, 354.26it/s]rs_add_no_818
1204 rs_add_no_818
1205 rs_add_no_818
1206 rs_add_no_818
1207 7302it [02:34, 326.90it/s]rs_add_no_818
1208 rs_add_no_818
1209 rs_add_no_818
1210 7321it [02:48, 9.27it/s] rs_add_no_818
1211 8047it [02:49, 348.17it/s]rs_add_no_818
1212 rs_add_no_818
1213 rs_add_no_818
1214 rs_add_no_818
1215 8767it [03:05, 344.72it/s]rs_add_no_818
1216 rs_add_no_818
```

```
1217 rs_add_no_818
1218 8785it [03:19,  8.28it/s] rs_add_no_818
1219 9483it [03:20, 379.66it/s]rs_add_no_818
1220 rs_add_no_818
1221 rs_add_no_818
1222 rs_add_no_818
1223 10202it [03:36, 251.43it/s]rs_add_no_818
1224 rs_add_no_818
1225 rs_add_no_818
1226 10249it [03:50, 14.05it/s] rs_add_no_818
1227 10957it [03:51, 270.02it/s]rs_add_no_818
1228 rs_add_no_818
1229 rs_add_no_818
1230 rs_add_no_818
1231 11672it [04:07, 212.34it/s]rs_add_no_818
1232 rs_add_no_818
1233 rs_add_no_818
1234 11712it [04:17, 212.34it/s]rs_add_no_818
1235 12434it [04:23, 329.47it/s]rs_add_no_818
1236 rs_add_no_818
1237 rs_add_no_818
1238 12445it [04:37, 6.52it/s] rs_add_no_818
1239 13154it [04:39, 360.33it/s]rs_add_no_818
1240 rs_add_no_818
1241 rs_add_no_818
1242 rs_add_no_818
1243 13902it [04:54, 345.90it/s]rs_add_no_818
1244 rs_add_no_818
1245 rs_add_no_818
1246 13908it [05:07, 345.90it/s]rs_add_no_818
1247 14627it [05:09, 420.23it/s]rs_add_no_818
1248 rs_add_no_818
1249 epoch number 19
1250 rs_add_no_818
1251 rs_add_no_818
1252 rs_add_no_818
1253 rs_add_no_818
1254 14640it [05:27, 420.23it/s]global t is : 7
1255 test epoch results {'accuracy': 0.5718954248366013
, 'f1_weighted': 0.5356502342684965, 'f1_macro': 0.
4376106877049157, 'f1': array([0.84863524, 0
```

```
1255 . , 0.55670103, 0.19736842, 0.5520362 ,  
1256 0.06382979, 0.58146965, 0.60226284, 0.  
53619303]), 'precision': array([0.82211538, 0  
. , 0.5625 , 0.53571429, 0.53508772,  
1257 0.6 , 0.65467626, 0.4964132 , 0.  
56497175]), 'recall': array([0.87692308, 0  
. , 0.55102041, 0.12096774, 0.57009346,  
1258 0.03370787, 0.52298851, 0.76548673, 0.  
51020408])}  
1259 val epoch results {'accuracy': 0.6291666666666667  
, 'f1_weighted': 0.5781266488819767, 'f1_macro': 0.  
41361200734947556, 'f1': array([0.86486486, 0  
. , 0.52631579, 0.13793103, 0.44155844,  
1260 0. , 0.53968254, 0.72135785, 0.  
49079755]), 'precision': array([0.82051282, 0  
. , 0.55555556, 0.6 , 0.4047619 ,  
1261 0. , 0.66666667, 0.61004785, 0.  
56338028]), 'recall': array([0.91428571, 0  
. , 0.5 , 0.07792208, 0.48571429,  
1262 0. , 0.45333333, 0.88235294, 0.  
43478261])}  
1263 14640it [05:28, 44.60it/s]  
1264 []  
1265 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-c416fc503051880c/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1266 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1267 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 111.97it/s]  
1268 100%|██████████| 1/1 [00:00<00:00, 90.95it/s]  
1269 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
c416fc503051880c/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, 126.52it/s]
1272 Generating train split: 0 examples [00:00, ? examples/s]Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-797432ebe26df82c/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
1273 100%|██████████| 1/1 [00:00<00:00, 83.41it/s]
1274 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-797432ebe26df82c/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. 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-99535079fbe5cad7/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
1277 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 124.87it/s]
1278 100%|██████████| 1/1 [00:00<00:00, 99.39it/s]
1279 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-99535079fbe5cad7/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. Subsequent calls will reuse this data.
1280 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]
1281 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-83b75a559181c43d/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
1282 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 144.04it/s]
1283 100%|██████████| 1/1 [00:00<00:00, 90.96it/s]
```

```
1284 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    83b75a559181c43d/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: 57510
1292 rs_add_no_818
1293 rs_add_no_818
1294 rs_add_no_818
1295 rs_add_no_818
1296 rs_add_no_818
1297 rs_add_no_818
1298 rs_add_no_818
1299 rs_add_no_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-a9c2e71a73b8482b/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1)
1303 100%|██████████| 1/1 [00:00<00:00, 83.34it/s]
1304 test len 14445
1305 Downloading data files: 100%|██████████| 1/1 [00:00<
    00:00, 998.88it/s]
1306 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 100.04it/s]
1307 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-f3dbe64053ab9b93/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1308 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
```

```
1308 downloaded and prepared to C:/Users/admin/.cache/
    huggingface/datasets/csv/default-f3dbe64053ab9b93/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1309 100%|██████████| 1/1 [00:00<00:00, 34.47it/s]
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-0eff1eaa6d85dae/0
    .0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1)
1314 100%|██████████| 1/1 [00:00<00:00, 1002.70it/s]
1315 val len 7227
1316 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-2f2394328ddd7a8e/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1317 Downloading data files: 100%|██████████| 1/1 [00:00
    <?, ?it/s]
1318 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 114.99it/s]
1319 100%|██████████| 1/1 [00:00<00:00, 95.20it/s]
1320 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    2f2394328ddd7a8e/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_no_818
```

1327	5%	1/20 [00:07<02:26, 7.71s/it]
rs_add_no_818		
1328	778it	[00:09, 430.21it/s]rs_add_no_818
1329	rs_add_no_818	
1330	rs_add_no_818	
1331	rs_add_no_818	
1332	1592it	[00:25, 404.32it/s]rs_add_no_818
1333	rs_add_no_818	
1334	rs_add_no_818	
1335	1599it	[00:39, 7.85it/s] rs_add_no_818
1336	2386it	[00:41, 416.18it/s]rs_add_no_818
1337	rs_add_no_818	
1338	rs_add_no_818	
1339	rs_add_no_818	
1340	3183it	[00:57, 343.60it/s]rs_add_no_818
1341	rs_add_no_818	
1342	rs_add_no_818	
1343	rs_add_no_818	
1344	3985it	[01:13, 334.68it/s]rs_add_no_818
1345	rs_add_no_818	
1346	rs_add_no_818	
1347	3996it	[01:27, 11.07it/s] rs_add_no_818
1348	4794it	[01:28, 447.44it/s]rs_add_no_818
1349	rs_add_no_818	
1350	rs_add_no_818	
1351	rs_add_no_818	
1352	5570it	[01:45, 287.55it/s]rs_add_no_818
1353	rs_add_no_818	
1354	rs_add_no_818	
1355	5594it	[02:00, 6.88it/s] rs_add_no_818
1356	6358it	[02:01, 414.69it/s]rs_add_no_818
1357	rs_add_no_818	
1358	rs_add_no_818	
1359	rs_add_no_818	
1360	7152it	[02:17, 411.29it/s]rs_add_no_818
1361	rs_add_no_818	
1362	rs_add_no_818	
1363	rs_add_no_818	
1364	7957it	[02:33, 401.39it/s]rs_add_no_818
1365	rs_add_no_818	
1366	rs_add_no_818	

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1367 7990it [02:46, 401.39it/s]rs_add_no_818
1368 8771it [02:49, 410.84it/s]rs_add_no_818
1369 rs_add_no_818
1370 rs_add_no_818
1371 rs_add_no_818
1372 9578it [03:04, 400.15it/s]rs_add_no_818
1373 rs_add_no_818
1374 rs_add_no_818
1375 9589it [03:18, 9.56it/s] rs_add_no_818
1376 10374it [03:20, 384.04it/s]rs_add_no_818
1377 rs_add_no_818
1378 rs_add_no_818
1379 rs_add_no_818
1380 11138it [03:35, 297.72it/s]rs_add_no_818
1381 rs_add_no_818
1382 rs_add_no_818
1383 11187it [03:49, 14.11it/s] rs_add_no_818
1384 11953it [03:50, 365.50it/s]rs_add_no_818
1385 rs_add_no_818
1386 rs_add_no_818
1387 rs_add_no_818
1388 12738it [04:06, 329.58it/s]rs_add_no_818
1389 rs_add_no_818
1390 rs_add_no_818
1391 12785it [04:20, 13.05it/s] rs_add_no_818
1392 13555it [04:21, 351.88it/s]rs_add_no_818
1393 rs_add_no_818
1394 rs_add_no_818
1395 rs_add_no_818
1396 14317it [04:37, 297.45it/s]rs_add_no_818
1397 rs_add_no_818
1398 rs_add_no_818
1399 rs_add_no_818
1400 15139it [04:53, 394.66it/s]rs_add_no_818
1401 rs_add_no_818
1402 rs_add_no_818
1403 15182it [05:07, 11.76it/s] rs_add_no_818
1404 15950it [05:08, 413.19it/s]rs_add_no_818
1405 rs_add_no_818
1406 epoch number 19
1407 rs_add_no_818
```

```
1408 rs_add_no_818
1409 rs_add_no_818
1410 rs_add_no_818
1411 15980it [05:27, 48.86it/s]
1412 global t is : 8
1413 test epoch results {'accuracy': 0.5797385620915033
, 'f1_weighted': 0.5456713574620915, 'f1_macro': 0.
4444296025056305, 'f1': array([0.85353535, 0
. , 0.53763441, 0.20987654, 0.57333333,
1414 0.06185567, 0.60790274, 0.60770578, 0.
5480226 ], 'precision': array([0.84079602, 0
. , 0.56818182, 0.44736842, 0.54661017,
1415 0.375 , 0.64516129, 0.50289855, 0.
61392405]), 'recall': array([0.86666667, 0
. , 0.51020408, 0.13709677, 0.60280374,
1416 0.03370787, 0.57471264, 0.76769912, 0.
49489796])}
1417 val epoch results {'accuracy': 0.6305555555555555
, 'f1_weighted': 0.5824889628278777, 'f1_macro': 0.
41761803348380805, 'f1': array([0.87671233, 0
. , 0.52631579, 0.17777778, 0.43037975,
1418 0. , 0.54961832, 0.72033898, 0.
47741935], 'precision': array([0.84210526, 0
. , 0.55555556, 0.61538462, 0.38636364,
1419 0. , 0.64285714, 0.60859189, 0.
58730159]), 'recall': array([0.91428571, 0
. , 0.5 , 0.1038961 , 0.48571429,
1420 0. , 0.48 , 0.88235294, 0.
40217391])}
1421 []
1422 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
1423 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-3efa5252ad8eef86/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1424 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 125.99it/s]
1425 100%|██████████| 1/1 [00:00<00:00, 50.00it/s]
1426 Dataset csv downloaded and prepared to C:/Users/
```

```
1426 admin/.cache/huggingface/datasets/csv/default-  
3efa5252ad8eef86/0.0.0/  
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, 125.00it/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-41861bcc62088ff5/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1430 100%|██████████| 1/1 [00:00<00:00, 76.96it/s]  
1431 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
41861bcc62088ff5/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1432 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1433 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-c2965bef4a293457/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1434 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 125.22it/s]  
1435 100%|██████████| 1/1 [00:00<00:00, 71.42it/s]  
1436 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
c2965bef4a293457/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1437 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1438 Extracting data files: 100%|██████████| 1/1 [00:00<
```

```
1438 00:00, 133.33it/s]
1439 Generating train split: 0 examples [00:00, ?
examples/s]Downloading and preparing dataset csv/
default to C:/Users/admin/.cache/huggingface/
datasets/csv/default-bff2cfb2c51aee94/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1440 100%|██████████| 1/1 [00:00<00:00, 95.14it/s]
1441 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
bff2cfb2c51aee94/0.0.0/
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: 61560
1449 rs_add_no_818
1450 rs_add_no_818
1451 rs_add_no_818
1452 rs_add_no_818
1453 rs_add_no_818
1454 rs_add_no_818
1455 rs_add_no_818
1456 rs_add_no_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-a9c2e71a73b8482b/0
.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1)
1460 100%|██████████| 1/1 [00:00<00:00, 68.95it/s]
1461 test len 14445
1462 Downloading data files: 100%|██████████| 1/1 [00:00
<00:00, 2044.01it/s]
```

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1463 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 153.61it/s]
1464 Generating train split: 0 examples [00:00, ? examples/s]Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-85b23ecaa95a141e/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
1465 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-85b23ecaa95a141e/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1. Subsequent calls will reuse this data.
1466 100%|██████████| 1/1 [00:00<00:00, 48.77it/s]
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-0eff1eaa6d85dae/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1)
1471 100%|██████████| 1/1 [00:00<00:00, 76.87it/s]
1472 val len 7227
1473 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]
1474 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 111.09it/s]
1475 Generating train split: 0 examples [00:00, ? examples/s]Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-8abb9885b93456ef/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc853bcc7ec513e1...
1476 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-8abb9885b93456ef/0.0.0/6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
```

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1476 53bcc7ec513e1. Subsequent calls will reuse this
      data.
1477 100% [REDACTED] | 1/1 [00:00<00:00, 90.93it/s]
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_no_818
1484 rs_add_no_818
1485 852it [00:18, 408.89it/s]rs_add_no_818
1486 rs_add_no_818
1487 rs_add_no_818
1488 rs_add_no_818
1489 1705it [00:33, 441.90it/s]rs_add_no_818
1490 rs_add_no_818
1491 rs_add_no_818
1492 1711it [00:48, 10.38it/s] rs_add_no_818
1493 2506it [00:49, 339.01it/s]rs_add_no_818
1494 rs_add_no_818
1495 rs_add_no_818
1496 rs_add_no_818
1497 3382it [01:05, 351.40it/s]rs_add_no_818
1498 rs_add_no_818
1499 3420it [01:17, 351.40it/s]rs_add_no_818
1500 3421it [01:22, 11.42it/s] rs_add_no_818
1501 4268it [01:24, 454.79it/s]rs_add_no_818
1502 rs_add_no_818
1503 rs_add_no_818
1504 4276it [01:39, 8.19it/s] rs_add_no_818
1505 5119it [01:41, 358.00it/s]rs_add_no_818
1506 rs_add_no_818
1507 rs_add_no_818
1508 rs_add_no_818
1509 5981it [01:57, 422.75it/s]rs_add_no_818
1510 rs_add_no_818
1511 rs_add_no_818
1512 5986it [02:11, 8.22it/s] rs_add_no_818
1513 6834it [02:14, 375.92it/s]rs_add_no_818
1514 rs_add_no_818
```

```
1515 rs_add_no_818
1516 6840it [02:27, 375.92it/s]rs_add_no_818
1517 7674it [02:30, 310.59it/s]rs_add_no_818
1518 rs_add_no_818
1519 rs_add_no_818
1520 rs_add_no_818
1521 8525it [02:46, 406.49it/s]rs_add_no_818
1522 rs_add_no_818
1523 8550it [02:57, 406.49it/s]rs_add_no_818
1524 rs_add_no_818
1525 9371it [03:05, 446.25it/s]rs_add_no_818
1526 rs_add_no_818
1527 rs_add_no_818
1528 9406it [03:19, 9.86it/s] rs_add_no_818
1529 10229it [03:21, 377.10it/s]rs_add_no_818
1530 rs_add_no_818
1531 rs_add_no_818
1532 rs_add_no_818
1533 11114it [03:37, 503.84it/s]rs_add_no_818
1534 rs_add_no_818
1535 rs_add_no_818
1536 rs_add_no_818
1537 11964it [03:53, 452.89it/s]rs_add_no_818
1538 rs_add_no_818
1539 rs_add_no_818
1540 11971it [04:08, 9.87it/s] rs_add_no_818
1541 12817it [04:10, 492.06it/s]rs_add_no_818
1542 rs_add_no_818
1543 rs_add_no_818
1544 rs_add_no_818
1545 13633it [04:26, 424.35it/s]rs_add_no_818
1546 rs_add_no_818
1547 rs_add_no_818
1548 13681it [04:41, 11.92it/s] rs_add_no_818
1549 14497it [04:43, 414.31it/s]rs_add_no_818
1550 rs_add_no_818
1551 rs_add_no_818
1552 rs_add_no_818
1553 15364it [04:59, 415.97it/s]rs_add_no_818
1554 rs_add_no_818
1555 rs_add_no_818
```

```
1556 rs_add_no_818
1557 16236it [05:15, 412.65it/s]rs_add_no_818
1558 rs_add_no_818
1559 rs_add_no_818
1560 16246it [05:29, 8.16it/s] rs_add_no_818
1561 17085it [05:32, 321.45it/s]rs_add_no_818
1562 rs_add_no_818
1563 epoch number 19
1564 rs_add_no_818
1565 rs_add_no_818
1566 17100it [05:47, 321.45it/s]rs_add_no_818
1567 rs_add_no_818
1568 global t is : 9
1569 test epoch results {'accuracy': 0.5745098039215686
, 'f1_weighted': 0.540994944323854, 'f1_macro': 0.
4404531252340924, 'f1': array([0.85421995, 0
. , 0.53763441, 0.19753086, 0.56823266,
1570 0.06122449, 0.60436137, 0.60347826, 0.
53739612]), 'precision': array([0.85204082, 0
. , 0.56818182, 0.42105263, 0.54506438,
1571 0.33333333, 0.65986395, 0.49713467, 0.
58787879]), 'recall': array([0.85641026, 0
. , 0.51020408, 0.12903226, 0.59345794,
1572 0.03370787, 0.55747126, 0.76769912, 0.
49489796])}
1573 val epoch results {'accuracy': 0.6291666666666667
, 'f1_weighted': 0.5798059817817005, 'f1_macro': 0.
41362980188460013, 'f1': array([0.87557604, 0
. , 0.5 , 0.15730337, 0.44155844,
1574 0. , 0.54961832, 0.71809257, 0.
48051948]), 'precision': array([0.84821429, 0
. , 0.5 , 0.58333333, 0.4047619 ,
1575 0. , 0.64285714, 0.60377358, 0.
59677419]), 'recall': array([0.9047619 , 0
. , 0.5 , 0.09090909, 0.48571429,
1576 0. , 0.48 , 0.88581315, 0.
40217391])}
1577 17100it [05:51, 48.68it/s]
1578 []
1579 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
```

```
1579 default-29d108e35624f25a/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
  53bcc7ec513e1...
1580 Downloading data files: 100%|██████████| 1/1 [00:00
  <, ?it/s]
1581 Extracting data files: 100%|██████████| 1/1 [00:00<
  00:00, 125.92it/s]
1582 100%|██████████| 1/1 [00:00<00:00, 62.75it/s]
1583 Dataset csv downloaded and prepared to C:/Users/
  admin/.cache/huggingface/datasets/csv/default-
  29d108e35624f25a/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
  53bcc7ec513e1. Subsequent calls will reuse this
  data.
1584 Downloading data files: 100%|██████████| 1/1 [00:00
  <, ?it/s]
1585 Extracting data files: 100%|██████████| 1/1 [00:00<
  00:00, 111.07it/s]
1586 Downloading and preparing dataset csv/default to C
  :/Users/admin/.cache/huggingface/datasets/csv/
  default-52aa34471562b727/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
  53bcc7ec513e1...
1587 100%|██████████| 1/1 [00:00<00:00, 76.88it/s]
1588 Dataset csv downloaded and prepared to C:/Users/
  admin/.cache/huggingface/datasets/csv/default-
  52aa34471562b727/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
  53bcc7ec513e1. Subsequent calls will reuse this
  data.
1589 Downloading data files: 100%|██████████| 1/1 [00:00
  <, ?it/s]
1590 Downloading and preparing dataset csv/default to C
  :/Users/admin/.cache/huggingface/datasets/csv/
  default-654dad8f562957ee/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
  53bcc7ec513e1...
1591 Extracting data files: 100%|██████████| 1/1 [00:00<
  00:00, 124.69it/s]
1592 100%|██████████| 1/1 [00:00<00:00, 71.41it/s]
1593 Dataset csv downloaded and prepared to C:/Users/
```

```
1593 admin/.cache/huggingface/datasets/csv/default-
654dad8f562957ee/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, 125.93it/s]
1596 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-3a75576a2d2189a7/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1597 100%|██████████| 1/1 [00:00<00:00, 90.57it/s]
1598 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
3a75576a2d2189a7/0.0.0/
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
```