

```
1 E:\Desktop\000\000\venv\Scripts\python.exe "D:/  
Bristol course/Data Science Dissertation/ExpBERT lab  
and thesis/BERT-IE-main/BERT-IE-main/Whole_train.py"  
2 exp_rs_add_1  
3 len test: 1605  
4 len train*val 3211  
5 len unxep 11241  
6 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
7d762ee7ff78eceb/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
7 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
8 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 7.65it/s]  
9 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-7d762ee7ff78eceb/0.0  
.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1. Subsequent calls will reuse this data.  
10 100%|██████████| 1/1 [00:00<00:00, 18.81it/s]  
11 11241  
12 torch.Size([11241, 27])  
13 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
e7076575a88e9e51/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
14 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
15 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 99.75it/s]  
16 100%|██████████| 1/1 [00:00<00:00, 77.25it/s]  
17 Dataset csv downloaded and prepared to C:/Users/admin  
.cache/huggingface/datasets/csv/default-  
e7076575a88e9e51/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1. Subsequent calls will reuse this data.  
18 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
19 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 166.13it/s]
```

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20 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
475acdf8489857c6/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
21 100%|██████████| 1/1 [00:00<00:00, 70.48it/s]  
22 Dataset csv downloaded and prepared to C:/Users/admin  
.cache/huggingface/datasets/csv/default-  
475acdf8489857c6/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1. Subsequent calls will reuse this data.  
23 noexp_df.shape[0] last 11241  
24 unexplained dataset length is:  
25 11241  
26 embedding begin  
27 trian and val dataset length: 28350  
28 exp_rs_add_1  
29 exp_rs_add_1  
30 exp_rs_add_1  
31 exp_rs_add_1  
32 exp_rs_add_1  
33 exp_rs_add_1  
34 exp_rs_add_1  
35 exp_rs_add_1  
36 315.0  
37 ./embeddings/NEW_bertie_embeddings_textattack/bert-  
base-uncased-MNLI_subset_1.pt  
38 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 1003.90it/s]  
39 Extracting data files: 100%|██████████| 1/1 [00:00<00  
:00, 250.98it/s]  
40 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
4c58e2fe9b1fe748/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1...  
41 100%|██████████| 1/1 [00:00<00:00, 66.89it/s]  
42 Dataset csv downloaded and prepared to C:/Users/admin  
.cache/huggingface/datasets/csv/default-  
4c58e2fe9b1fe748/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc853  
bcc7ec513e1. Subsequent calls will reuse this data.  
43 test len 14445  
44 Downloading and preparing dataset csv/default to C:/
```

```
44 Users/admin/.cache/huggingface/datasets/csv/default-
c6e8b9239183a33f/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
  bcc7ec513e1...
45 Downloading data files: 100%|██████████| 1/1 [00:00<
  00:00, 1050.15it/s]
46 Extracting data files: 100%|██████████| 1/1 [00:00<00
  :00, 167.16it/s]
47 100%|██████████| 1/1 [00:00<00:00, 94.31it/s]
48 Dataset csv downloaded and prepared to C:/Users/admin
  /.cache/huggingface/datasets/csv/default-
  c6e8b9239183a33f/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc853
  bcc7ec513e1. Subsequent calls will reuse this data.
49 preprocess_samples begin ...
50 uncertainty shape: 1530
51 ./test_embeddings/NEW_bertie_embeddings_textattack/
  bert-base-uncased-MNLI_subset_1.pt
52 classify begin
53 3211
54   0%|           | 0/20 [00:00<?, ?it/s]exp_rs_add_1
55 exp_rs_add_1
56 352it [00:08, 167.21it/s]exp_rs_add_1
57 exp_rs_add_1
58 exp_rs_add_1
59 356it [00:24, 7.49it/s] exp_rs_add_1
60 705it [00:25, 153.79it/s]exp_rs_add_1
61 exp_rs_add_1
62 exp_rs_add_1
63 exp_rs_add_1
64 1047it [00:41, 139.48it/s]exp_rs_add_1
65 exp_rs_add_1
66 1065it [00:51, 139.48it/s]exp_rs_add_1
67 exp_rs_add_1
68 1393it [01:00, 46.53it/s]exp_rs_add_1
69 exp_rs_add_1
70 exp_rs_add_1
71 1420it [01:11, 46.53it/s]exp_rs_add_1
72 1768it [01:14, 86.09it/s]exp_rs_add_1
73 exp_rs_add_1
74 exp_rs_add_1
75 exp_rs_add_1
76 2082it [01:30, 56.89it/s]exp_rs_add_1
77 exp_rs_add_1
```

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78 2130it [01:41, 56.89it/s]exp_rs_add_1
79 exp_rs_add_1
80 2473it [01:50, 67.87it/s]exp_rs_add_1
81 exp_rs_add_1
82 2485it [02:01, 67.87it/s]exp_rs_add_1
83 exp_rs_add_1
84 2820it [02:11, 110.45it/s]exp_rs_add_1
85 exp_rs_add_1
86 2840it [02:21, 110.45it/s]exp_rs_add_1
87 exp_rs_add_1
88 3187it [02:30, 139.17it/s]exp_rs_add_1
89 exp_rs_add_1
90 3195it [02:41, 139.17it/s]exp_rs_add_1
91 exp_rs_add_1
92 3502it [02:50, 64.60it/s]exp_rs_add_1
93 exp_rs_add_1
94 exp_rs_add_1
95 3551it [03:05, 9.73it/s]exp_rs_add_1
96 3895it [03:06, 146.63it/s]exp_rs_add_1
97 exp_rs_add_1
98 exp_rs_add_1
99 3906it [03:21, 6.30it/s] exp_rs_add_1
100 4209it [03:22, 120.58it/s]exp_rs_add_1
101 exp_rs_add_1
102 exp_rs_add_1
103 4261it [03:36, 10.35it/s] exp_rs_add_1
104 4573it [03:37, 123.17it/s]exp_rs_add_1
105 exp_rs_add_1
106 exp_rs_add_1
107 4616it [03:52, 9.33it/s] exp_rs_add_1
108 4944it [03:53, 137.11it/s]exp_rs_add_1
109 exp_rs_add_1
110 exp_rs_add_1
111 exp_rs_add_1
112 5277it [04:09, 74.13it/s]exp_rs_add_1
113 exp_rs_add_1
114 exp_rs_add_1
115 5326it [04:23, 10.28it/s]exp_rs_add_1
116 5679it [04:24, 164.36it/s]exp_rs_add_1
117 exp_rs_add_1
118 exp_rs_add_1
119 exp_rs_add_1
120 6022it [04:40, 91.41it/s]exp_rs_add_1
121 exp_rs_add_1
```

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122 exp_rs_add_1
123 6035it [04:51, 91.41it/s]exp_rs_add_1
124 6379it [04:57, 168.54it/s]exp_rs_add_1
125 exp_rs_add_1
126 exp_rs_add_1
127 6391it [05:15, 4.62it/s] exp_rs_add_1
128 6719it [05:16, 165.53it/s]exp_rs_add_1
129 exp_rs_add_1
130 exp_rs_add_1
131 6746it [05:32, 5.82it/s] exp_rs_add_1
132 7072it [05:33, 95.16it/s]exp_rs_add_1
133 exp_rs_add_1
134 epoch number 19
135 exp_rs_add_1
136 exp_rs_add_1
137 7100it [05:51, 95.16it/s]exp_rs_add_1
138 exp_rs_add_1
139 global t is : 0
140 test epoch results {'accuracy': 0.5392156862745098
, 'f1_weighted': 0.4939554215710343, 'f1_macro': 0.
37401773727144544, 'f1': array([0.80693069, 0
. , 0.26865672, 0.11594203, 0.51918736,
0.04347826, 0.5033557 , 0.58989229, 0.
51871658]), 'precision': array([0.77990431, 0
. , 0.5 , 0.57142857, 0.50218341,
0.66666667, 0.60483871, 0.47152318, 0.
54494382]), 'recall': array([0.83589744, 0
. , 0.18367347, 0.06451613, 0.53738318,
0.02247191, 0.43103448, 0.78761062, 0.
49489796])}
144 val epoch results {'accuracy': 0.5714285714285714, 'f1_weighted': 0.522547618545668, 'f1_macro': 0.
41390963004281167, 'f1': array([0.85365854, 0
. , 0.47058824, 0. , 0.52873563,
0.1 , 0.64615385, 0.61176471, 0.
51428571]), 'precision': array([0.83333333, 0
. , 0.66666667, 0. , 0.53488372,
1. , 0.72413793, 0.47852761, 0.6
]), 'recall': array([0.875 , 0. ,
0.36363636, 0. , 0.52272727,
0.05263158, 0.58333333, 0.84782609, 0.45
])}
148 7100it [05:54, 20.05it/s]
149 ['someone is dead death die or killed injured or
```

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149 hurt\n']  
150 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
151 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 144.71it/s]  
152 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
a285553316fee6b8/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
153 100%|██████████| 1/1 [00:00<00:00, 41.06it/s]  
154 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
a285553316fee6b8/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
155 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 1033.08it/s]  
156 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 140.31it/s]  
157 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
bbf3ecbab49316b1/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
158 100%|██████████| 1/1 [00:00<00:00, 71.45it/s]  
159 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
bbf3ecbab49316b1/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
160 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
161 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
8e9c0d8d66328ccd/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
162 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 126.01it/s]  
163 100%|██████████| 1/1 [00:00<00:00, 76.15it/s]  
164 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
8e9c0d8d66328ccd/0.0.0/
```

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164 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
165 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 1000.55it/s]  
166 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-92fc8a5e4f0a43ec/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
167 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 8.83it/s]  
168 0% | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-92fc8a5e4f0a43ec/0.  
0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
169 100%|██████████| 1/1 [00:00<00:00, 26.71it/s]  
170 t is : 1  
171 addlen is: 500  
172 noexp_df.shape[0] last 10741  
173 unexplained dataset length is:  
174 10741  
175 embedding begin  
176 trian and val dataset length: 36900  
177 exp_rs_add_1  
178 exp_rs_add_1  
179 exp_rs_add_1  
180 exp_rs_add_1  
181 exp_rs_add_1  
182 exp_rs_add_1  
183 exp_rs_add_1  
184 exp_rs_add_1  
185 369.0  
186 ./embeddings/NEW_bertie_embeddings_textattack/bert-  
base-uncased-MNLI_subset_1.pt  
187 Found cached dataset csv (C:/Users/admin/.cache/  
huggingface/datasets/csv/default-4c58e2fe9b1fe748/0.  
0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1)  
188 100%|██████████| 1/1 [00:00<00:00, 426.81it/s]
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189 test len 16050
190 Downloading data files: 100%|██████████| 1/1 [00:00
    <?, ?it/s]
191 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 136.37it/s]
192 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-
ba4fb67fbda50e/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
193 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-ba4fb67fbda50e/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
194 100%|██████████| 1/1 [00:00<00:00, 37.17it/s]
195 preprocess_samples begin ...
196 uncertainty shape: 1530
197 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
198 classify begin
199 3711
200 0%|          | 0/20 [00:00<?, ?it/s]exp_rs_add_1
201 exp_rs_add_1
202 376it [00:08, 149.40it/s]exp_rs_add_1
203 exp_rs_add_1
204 exp_rs_add_1
205 exp_rs_add_1
206 817it [00:23, 127.99it/s]exp_rs_add_1
207 exp_rs_add_1
208 exp_rs_add_1
209 833it [00:37, 8.04it/s] exp_rs_add_1
210 1203it [00:38, 79.74it/s]exp_rs_add_1
211 exp_rs_add_1
212 exp_rs_add_1
213 exp_rs_add_1
214 1630it [00:53, 123.44it/s]exp_rs_add_1
215 exp_rs_add_1
216 exp_rs_add_1
217 1665it [01:06, 9.79it/s] exp_rs_add_1
218 2043it [01:07, 101.07it/s]exp_rs_add_1
219 exp_rs_add_1
220 exp_rs_add_1
```

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221 exp_rs_add_1
222 2496it [01:22, 135.20it/s]exp_rs_add_1
223 exp_rs_add_1
224 exp_rs_add_1
225 2497it [01:38, 6.90it/s] exp_rs_add_1
226 2885it [01:39, 192.59it/s]exp_rs_add_1
227 exp_rs_add_1
228 2912it [01:55, 192.59it/s]exp_rs_add_1
229 exp_rs_add_1
230 3302it [02:01, 158.48it/s]exp_rs_add_1
231 exp_rs_add_1
232 exp_rs_add_1
233 3328it [02:15, 158.48it/s]exp_rs_add_1
234 3741it [02:18, 119.67it/s]exp_rs_add_1
235 exp_rs_add_1
236 exp_rs_add_1
237 exp_rs_add_1
238 4149it [02:33, 106.87it/s]exp_rs_add_1
239 exp_rs_add_1
240 exp_rs_add_1
241 4161it [02:49, 5.68it/s] exp_rs_add_1
242 4553it [02:50, 228.88it/s]exp_rs_add_1
243 exp_rs_add_1
244 exp_rs_add_1
245 exp_rs_add_1
246 4974it [03:06, 219.05it/s]exp_rs_add_1
247 exp_rs_add_1
248 exp_rs_add_1
249 exp_rs_add_1
250 5335it [03:21, 62.86it/s]exp_rs_add_1
251 exp_rs_add_1
252 exp_rs_add_1
253 exp_rs_add_1
254 5775it [03:35, 82.73it/s]exp_rs_add_1
255 exp_rs_add_1
256 exp_rs_add_1
257 5825it [03:48, 14.27it/s]exp_rs_add_1
258 6204it [03:49, 103.22it/s]exp_rs_add_1
259 exp_rs_add_1
260 exp_rs_add_1
261 exp_rs_add_1
262 6634it [04:06, 190.86it/s]exp_rs_add_1
263 exp_rs_add_1
264 exp_rs_add_1
```

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265 exp_rs_add_1
266 7043it [04:22, 90.60it/s]exp_rs_add_1
267 exp_rs_add_1
268 exp_rs_add_1
269 7072it [04:36, 90.60it/s]exp_rs_add_1
270 7481it [04:37, 105.45it/s]exp_rs_add_1
271 exp_rs_add_1
272 exp_rs_add_1
273 exp_rs_add_1
274 7895it [04:52, 110.31it/s]exp_rs_add_1
275 exp_rs_add_1
276 exp_rs_add_1
277 7905it [05:07, 6.86it/s] exp_rs_add_1
278 8279it [05:07, 89.87it/s]exp_rs_add_1
279 exp_rs_add_1
280 epoch number 19
281 exp_rs_add_1
282 exp_rs_add_1
283 exp_rs_add_1
284 exp_rs_add_1
285 global t is : 1
286 test epoch results {'accuracy': 0.5607843137254902
, 'f1_weighted': 0.5204666391120158, 'f1_macro': 0.
41671518607196995, 'f1': array([0.83417085, 0.
05263158, 0.44444444, 0.1294964 , 0.55889145,
0.02197802, 0.57980456, 0.58646617, 0.
54255319]), 'precision': array([0.81773399, 1
., 0.5625 , 0.6 , 0.55251142,
0.5 , 0.66917293, 0.47114094, 0.
56666667]), 'recall': array([0.85128205, 0.02702703
, 0.36734694, 0.07258065, 0.56542056,
0.01123596, 0.51149425, 0.77654867, 0.
52040816])}
288 val epoch results {'accuracy': 0.5257452574525745, 'f1_weighted': 0.48261910689994403, 'f1_macro': 0.
3777746619098259, 'f1': array([0.78350515, 0
., 0.44444444, 0.11764706, 0.48421053,
0. , 0.38235294, 0.55737705, 0.
63043478]), 'precision': array([0.76 , 0
., 0.66666667, 0.5 , 0.52272727,
0. , 0.5 , 0.43367347, 0.6744186
]), 'recall': array([0.80851064, 0. , 0.
33333333, 0.06666667, 0.45098039,
0. , 0.30952381, 0.77981651, 0.
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293 59183673])}
294 8320it [05:26, 25.52it/s]
295 ['someone is missing or lost or trapped was found or
rescued\n']
296 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-3307def5d2c93738/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
297 Downloading data files: 100%|██████████| 1/1 [00:00
<?, ?it/s]
298 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 138.49it/s]
299 100%|██████████| 1/1 [00:00<00:00, 89.47it/s]
300 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-3307def5d2c93738/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
301 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1003.18it/s]
302 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-aa6dfbc0ce1e30ec/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
303 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 125.39it/s]
304 100%|██████████| 1/1 [00:00<00:00, 70.05it/s]
305 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-aa6dfbc0ce1e30ec/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
306 Downloading data files: 100%|██████████| 1/1 [00:00
<?, ?it/s]
307 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-2983b1ff5f39c161/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
308 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 138.38it/s]
309 100%|██████████| 1/1 [00:00<00:00, 91.16it/s]
```

```
310 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
2983b1ff5f39c161/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
311 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 860.02it/s]
312 Downloading and preparing dataset csv/default to C:/
Users/admin/.cache/huggingface/datasets/csv/default-
4ffa3deb430e6524/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
313 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 9.22it/s]
314 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-4ffa3deb430e6524/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
315 100%|██████████| 1/1 [00:00<00:00, 21.07it/s]
316 t is : 2
317 addlen is: 1000
318 noexp_df.shape[0] last 10241
319 unexplained dataset length is:
320 10241
321 embedding begin
322 trian and val dataset length: 45540
323 exp_rs_add_1
324 exp_rs_add_1
325 exp_rs_add_1
326 exp_rs_add_1
327 exp_rs_add_1
328 exp_rs_add_1
329 exp_rs_add_1
330 exp_rs_add_1
331 414.0
332 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
333 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-4c58e2fe9b1fe748/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
```

```
334 100%|██████████| 1/1 [00:00<00:00, 501.65it/s]
335 test len 17655
336 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-98cfa8b1f145cffc/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
337 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
338 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 111.53it/s]
339 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
downloaded and prepared to C:/Users/admin/.cache/
huggingface/datasets/csv/default-98cfa8b1f145cffc/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
340 100%|██████████| 1/1 [00:00<00:00, 35.49it/s]
341 preprocess_samples begin ...
342 uncertainty shape: 1530
343 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
344 classify begin
345 4211
346 0%|          | 0/20 [00:00<?, ?it/s]exp_rs_add_1
347 exp_rs_add_1
348 445it [00:10, 373.19it/s]exp_rs_add_1
349 exp_rs_add_1
350 exp_rs_add_1
351 exp_rs_add_1
352 890it [00:26, 175.03it/s]exp_rs_add_1
353 exp_rs_add_1
354 exp_rs_add_1
355 932it [00:38, 175.03it/s]exp_rs_add_1
356 1385it [00:44, 225.52it/s]exp_rs_add_1
357 exp_rs_add_1
358 exp_rs_add_1
359 1399it [00:59, 5.44it/s] exp_rs_add_1
360 1842it [01:01, 227.25it/s]exp_rs_add_1
361 exp_rs_add_1
362 exp_rs_add_1
363 1865it [01:19, 4.87it/s] exp_rs_add_1
364 2327it [01:21, 223.10it/s]exp_rs_add_1
365 exp_rs_add_1
```

```
366 exp_rs_add_1
367 2331it [01:39,  3.66it/s] exp_rs_add_1
368 2783it [01:41, 243.07it/s]exp_rs_add_1
369 exp_rs_add_1
370 exp_rs_add_1
371 2797it [01:58,  4.53it/s] exp_rs_add_1
372 3225it [02:00, 283.68it/s]exp_rs_add_1
373 exp_rs_add_1
374 exp_rs_add_1
375 3262it [02:18, 283.68it/s]exp_rs_add_1
376 3695it [02:23, 106.87it/s]exp_rs_add_1
377 exp_rs_add_1
378 exp_rs_add_1
379 3729it [02:42,  7.50it/s] exp_rs_add_1
380 4186it [02:44, 205.84it/s]exp_rs_add_1
381 exp_rs_add_1
382 exp_rs_add_1
383 4195it [03:01,  4.01it/s] exp_rs_add_1
384 4643it [03:02, 247.87it/s]exp_rs_add_1
385 exp_rs_add_1
386 exp_rs_add_1
387 exp_rs_add_1
388 5088it [03:18, 176.71it/s]exp_rs_add_1
389 exp_rs_add_1
390 5126it [03:28, 176.71it/s]exp_rs_add_1
391 exp_rs_add_1
392 5577it [03:35, 214.52it/s]exp_rs_add_1
393 exp_rs_add_1
394 exp_rs_add_1
395 5593it [03:51,  5.30it/s] exp_rs_add_1
396 6042it [03:53, 177.78it/s]exp_rs_add_1
397 exp_rs_add_1
398 exp_rs_add_1
399 6059it [04:10,  3.92it/s] exp_rs_add_1
400 6490it [04:12, 133.25it/s]exp_rs_add_1
401 exp_rs_add_1
402 exp_rs_add_1
403 6525it [04:29,  5.21it/s] exp_rs_add_1
404 6970it [04:31, 230.69it/s]exp_rs_add_1
405 exp_rs_add_1
406 exp_rs_add_1
407 6991it [04:49,  4.52it/s] exp_rs_add_1
408 7429it [04:50, 247.64it/s]exp_rs_add_1
409 exp_rs_add_1
```

```
410 exp_rs_add_1
411 exp_rs_add_1
412 7896it [05:09, 264.35it/s]exp_rs_add_1
413 exp_rs_add_1
414 exp_rs_add_1
415 exp_rs_add_1
416 8359it [05:27, 246.82it/s]exp_rs_add_1
417 exp_rs_add_1
418 8388it [05:39, 246.82it/s]exp_rs_add_1
419 exp_rs_add_1
420 8832it [05:47, 212.51it/s]exp_rs_add_1
421 exp_rs_add_1
422 8854it [05:59, 212.51it/s]exp_rs_add_1
423 exp_rs_add_1
424 9298it [06:08, 184.34it/s]exp_rs_add_1
425 exp_rs_add_1
426 epoch number 19
427 9320it [06:19, 184.34it/s]exp_rs_add_1
428 exp_rs_add_1
429 exp_rs_add_1
430 exp_rs_add_1
431 global t is : 2
432 test epoch results {'accuracy': 0.5483660130718955
, 'f1_weighted': 0.5077029716992765, 'f1_macro': 0.
390803924351218, 'f1': array([0.83969466, 0
. , 0.3125 , 0.18300654, 0.52036199,
433 0. , 0.53061224, 0.58464079, 0.5464191
]), 'precision': array([0.83333333, 0. , 0.
66666667, 0.48275862, 0.50438596,
434 0. , 0.65 , 0.46640316, 0.
56906077]), 'recall': array([0.84615385, 0
. , 0.20408163, 0.11290323, 0.53738318,
435 0. , 0.44827586, 0.78318584, 0.5255102
])}
436 val epoch results {'accuracy': 0.5797101449275363, 'f1_weighted': 0.5407060068167678, 'f1_macro': 0.
4335546804088698, 'f1': array([0.92 , 0
. , 0.54545455, 0.2173913 , 0.55769231,
437 0. , 0.41975309, 0.62170088, 0.62
]), 'precision': array([0.95833333, 0
. , 0.66666667, 0.41666667, 0.60416667,
438 0. , 0.5 , 0.48847926, 0.
67391304]), 'recall': array([0.88461538, 0
. , 0.46153846, 0.14705882, 0.51785714,
```

```
439          0.      , 0.36170213, 0.85483871, 0.  
57407407])}  
440 9320it [06:33, 23.68it/s]  
441 ['people were displaced sent to shelters evacuated  
and relocated\n']  
442 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
443 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-d1c79c8873aedefb/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
444 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 29.71it/s]  
445 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-d1c79c8873aedefb/0.  
0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
446 100%|██████████| 1/1 [00:00<00:00, 26.21it/s]  
447 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 1978.45it/s]  
448 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
d5a23ff4f859b589/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
449 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 96.67it/s]  
450 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-d5a23ff4f859b589/0.  
0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
451 100%|██████████| 1/1 [00:00<00:00, 17.93it/s]  
452 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 402.76it/s]  
453 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
3a1b46502c07585e/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
```

```
453 3bcc7ec513e1...
454 Extracting data files: 100%|██████████| 1/1 [00:00<
  00:00, 111.07it/s]
455  0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
  downloaded and prepared to C:/Users/admin/.cache/
  huggingface/datasets/csv/default-3a1b46502c07585e/0.
  0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
  3bcc7ec513e1. Subsequent calls will reuse this data.
456 100%|██████████| 1/1 [00:00<00:00, 26.92it/s]
457 Downloading data files: 100%|██████████| 1/1 [00:00
  <?, ?it/s]
458 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-ca8f9e96a03a81a9/0.0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
  3bcc7ec513e1...
459 Extracting data files: 100%|██████████| 1/1 [00:00<
  00:00,  6.93it/s]
460  0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
  downloaded and prepared to C:/Users/admin/.cache/
  huggingface/datasets/csv/default-ca8f9e96a03a81a9/0.
  0.0/
  6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
  3bcc7ec513e1. Subsequent calls will reuse this data.
461 100%|██████████| 1/1 [00:00<00:00, 12.89it/s]
462 t is : 3
463 addlen is: 1500
464 noexp_df.shape[0] last 9741
465 unexplained dataset length is:
466 9741
467 embedding begin
468 trian and val dataset length: 56160
469 exp_rs_add_1
470 exp_rs_add_1
471 exp_rs_add_1
472 exp_rs_add_1
473 exp_rs_add_1
474 exp_rs_add_1
475 exp_rs_add_1
476 exp_rs_add_1
477 468.0
478 ./embeddings/NEW_bertie_embeddings_textattack/bert-
```

```
478 base-uncased-MNLI_subset_1.pt
479 Found cached dataset csv (C:/Users/admin/.cache/
    huggingface/datasets/csv/default-4c58e2fe9b1fe748/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1)
480 100%|██████████| 1/1 [00:00<00:00, 71.67it/s]
481 test len 19260
482 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-f087c4b8dc62c161/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1...
483 Downloading data files: 100%|██████████| 1/1 [00:00<00:00, 1007.04it/s]
484 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 111.97it/s]
485 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv
    downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-f087c4b8dc62c161/0.
    0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
    3bcc7ec513e1. Subsequent calls will reuse this data.
486 100%|██████████| 1/1 [00:00<00:00, 43.13it/s]
487 preprocess_samples begin ...
488 uncertainty shape: 1530
489 ./test_embeddings/NEW_bertie_embeddings_textattack/
    bert-base-uncased-MNLI_subset_1.pt
490 classify begin
491 4711
492 0%|          | 0/20 [00:00<?, ?it/s]exp_rs_add_1
493 exp_rs_add_1
494 499it [00:09, 188.35it/s]exp_rs_add_1
495 exp_rs_add_1
496 exp_rs_add_1
497 528it [00:23, 12.79it/s] exp_rs_add_1
498 1049it [00:24, 165.53it/s]exp_rs_add_1
499 exp_rs_add_1
500 exp_rs_add_1
501 exp_rs_add_1
502 1567it [00:41, 135.81it/s]exp_rs_add_1
503 exp_rs_add_1
504 1581it [00:52, 135.81it/s]exp_rs_add_1
505 exp_rs_add_1
```

```
506 2026it [01:01, 75.85it/s]exp_rs_add_1
507 exp_rs_add_1
508 exp_rs_add_1
509 2109it [01:16, 15.40it/s]exp_rs_add_1
510 2571it [01:17, 93.40it/s]exp_rs_add_1
511 exp_rs_add_1
512 exp_rs_add_1
513 exp_rs_add_1
514 3149it [01:32, 100.90it/s]exp_rs_add_1
515 exp_rs_add_1
516 exp_rs_add_1
517 3162it [01:42, 100.90it/s]exp_rs_add_1
518 3675it [01:47, 140.04it/s]exp_rs_add_1
519 exp_rs_add_1
520 exp_rs_add_1
521 exp_rs_add_1
522 4216it [02:02, 137.53it/s]exp_rs_add_1
523 exp_rs_add_1
524 exp_rs_add_1
525 4216it [02:12, 137.53it/s]exp_rs_add_1
526 4677it [02:16, 118.81it/s]exp_rs_add_1
527 exp_rs_add_1
528 exp_rs_add_1
529 exp_rs_add_1
530 5246it [02:31, 129.02it/s]exp_rs_add_1
531 exp_rs_add_1
532 exp_rs_add_1
533 5271it [02:45, 14.10it/s] exp_rs_add_1
534 5754it [02:45, 126.80it/s]exp_rs_add_1
535 exp_rs_add_1
536 exp_rs_add_1
537 exp_rs_add_1
538 6255it [03:00, 94.10it/s]exp_rs_add_1
539 exp_rs_add_1
540 exp_rs_add_1
541 6325it [03:15, 15.51it/s]exp_rs_add_1
542 6848it [03:17, 222.81it/s]exp_rs_add_1
543 exp_rs_add_1
544 exp_rs_add_1
545 exp_rs_add_1
546 7330it [03:33, 98.53it/s]exp_rs_add_1
547 exp_rs_add_1
548 exp_rs_add_1
549 exp_rs_add_1
```

```
550 7897it [03:51, 191.68it/s]exp_rs_add_1
551 exp_rs_add_1
552 exp_rs_add_1
553 7906it [04:07, 3.88it/s] exp_rs_add_1
554 8399it [04:08, 168.92it/s]exp_rs_add_1
555 exp_rs_add_1
556 exp_rs_add_1
557 exp_rs_add_1
558 8941it [04:23, 152.71it/s]exp_rs_add_1
559 exp_rs_add_1
560 exp_rs_add_1
561 exp_rs_add_1
562 9475it [04:39, 199.30it/s]exp_rs_add_1
563 exp_rs_add_1
564 exp_rs_add_1
565 9487it [04:57, 7.71it/s] exp_rs_add_1
566 9988it [04:58, 119.90it/s]exp_rs_add_1
567 exp_rs_add_1
568 exp_rs_add_1
569 exp_rs_add_1
570 10524it [05:12, 117.88it/s]exp_rs_add_1
571 exp_rs_add_1
572 epoch number 19
573 10540it [05:23, 117.88it/s]exp_rs_add_1
574 exp_rs_add_1
575 exp_rs_add_1
576 exp_rs_add_1
577 global t is : 3
578 test epoch results {'accuracy': 0.5542483660130719
, 'f1_weighted': 0.5209180980733592, 'f1_macro': 0.
4209600865748077, 'f1': array([0.8616188 , 0.
09756098, 0.42352941, 0.18292683, 0.5462754 ,
579 0. , 0.55972696, 0.58091993, 0.
53608247]), 'precision': array([0.87765957, 0.5
, 0.5 , 0.375 , 0.52838428,
580 0. , 0.68907563, 0.47229917, 0.
54166667]), 'recall': array([0.84615385, 0.05405405
, 0.36734694, 0.12096774, 0.56542056,
581 0. , 0.47126437, 0.75442478, 0.
53061224])}
582 val epoch results {'accuracy': 0.5299145299145299, 'f1_weighted': 0.49123234797909204, 'f1_macro': 0.4116742049555921, 'f1': array([0.82926829, 0.13333333, 0.57142857, 0.19607843, 0.50819672,
```

```
583 10540it [05:31, 31.84it/s]
584      0.          , 0.42352941, 0.57894737, 0.
585      46428571]), 'precision': array([0.796875 , 0.
586      33333333, 0.85714286, 0.41666667, 0.52542373,
587      0.          , 0.5625   , 0.45643154, 0.52
588      ]), 'recall': array([0.86440678, 0.08333333, 0
589      .42857143, 0.12820513, 0.49206349,
590      0.          , 0.33962264, 0.79136691, 0.
591      41935484])}
592 ['people are praying god bless keep safe folded
593 hands lord in their thoughts\n']
594 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-95e3b8d52f1441ab/0.0.0/
595 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
596 3bcc7ec513e1...
597 Downloading data files: 100%|██████████| 1/1 [00:00
598 <?, ?it/s]
599 Extracting data files: 100%|██████████| 1/1 [00:00<
600 00:00, 142.04it/s]
601 100%|██████████| 1/1 [00:00<00:00, 83.63it/s]
602 Dataset csv downloaded and prepared to C:/Users/
603 admin/.cache/huggingface/datasets/csv/default-
604 95e3b8d52f1441ab/0.0.0/
605 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
606 3bcc7ec513e1. Subsequent calls will reuse this data.
607 Downloading data files: 100%|██████████| 1/1 [00:00
608 <?, ?it/s]
609 Extracting data files: 100%|██████████| 1/1 [00:00<
610 00:00, 111.44it/s]
611 Generating train split: 0 examples [00:00, ?
612 examples/s] Downloading and preparing dataset csv/
613 default to C:/Users/admin/.cache/huggingface/
614 datasets/csv/default-e94bdb95b991f1b4/0.0.0/
615 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
616 3bcc7ec513e1...
617 100%|██████████| 1/1 [00:00<00:00, 59.03it/s]
618 Dataset csv downloaded and prepared to C:/Users/
619 admin/.cache/huggingface/datasets/csv/default-
620 e94bdb95b991f1b4/0.0.0/
621 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
622 3bcc7ec513e1. Subsequent calls will reuse this data.
623 Downloading data files: 100%|██████████| 1/1 [00:00
624 <?, ?it/s]
```

```
599 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
7518635fb83f9060/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
600 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 125.84it/s]  
601 100%|██████████| 1/1 [00:00<00:00, 105.84it/s]  
602 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
7518635fb83f9060/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
603 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 1985.94it/s]  
604 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
301705f91df63711/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
605 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 9.13it/s]  
606 100%|██████████| 1/1 [00:00<00:00, 77.18it/s]  
607 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
301705f91df63711/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
608 t is : 4  
609 addlen is: 2000  
610 noexp_df.shape[0] last 9241  
611 unexplained dataset length is:  
612 9241  
613 embedding begin  
614 trian and val dataset length: 66690  
615 exp_rs_add_1  
616 exp_rs_add_1  
617 exp_rs_add_1  
618 exp_rs_add_1  
619 exp_rs_add_1  
620 exp_rs_add_1  
621 exp_rs_add_1  
622 exp_rs_add_1  
623 513.0
```

```
624 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
625 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-4c58e2fe9b1fe748/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
626 100%|██████████| 1/1 [00:00<00:00, 671.20it/s]
627 test len 20865
628 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
1bed98fe9b3e0ab5/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
629 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
630 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 143.28it/s]
631 100%|██████████| 1/1 [00:00<00:00, 52.81it/s]
632 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
1bed98fe9b3e0ab5/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
633 preprocess_samples begin ...
634 uncertainty shape: 1530
635 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
636 classify begin
637 5211
638 0%|          | 0/20 [00:00<?, ?it/s]exp_rs_add_1
639 5%|█        | 1/20 [00:07<02:28,  7.80s/it]
   exp_rs_add_1
640 546it [00:08, 244.88it/s]exp_rs_add_1
641 exp_rs_add_1
642 exp_rs_add_1
643 exp_rs_add_1
644 1104it [00:21, 119.72it/s]exp_rs_add_1
645 exp_rs_add_1
646 exp_rs_add_1
647 1157it [00:34, 18.64it/s] exp_rs_add_1
648 1670it [00:35, 135.75it/s]exp_rs_add_1
649 exp_rs_add_1
650 exp_rs_add_1
```

```
651 exp_rs_add_1
652 2303it [00:48, 156.16it/s]exp_rs_add_1
653 exp_rs_add_1
654 exp_rs_add_1
655 exp_rs_add_1
656 2845it [01:01, 113.13it/s]exp_rs_add_1
657 exp_rs_add_1
658 exp_rs_add_1
659 2891it [01:14, 17.69it/s] exp_rs_add_1
660 3429it [01:15, 149.70it/s]exp_rs_add_1
661 exp_rs_add_1
662 exp_rs_add_1
663 exp_rs_add_1
664 3994it [01:28, 120.61it/s]exp_rs_add_1
665 exp_rs_add_1
666 exp_rs_add_1
667 exp_rs_add_1
668 4613it [01:41, 146.81it/s]exp_rs_add_1
669 exp_rs_add_1
670 exp_rs_add_1
671 4625it [01:54, 15.58it/s] exp_rs_add_1
672 5141it [01:54, 144.14it/s]exp_rs_add_1
673 exp_rs_add_1
674 exp_rs_add_1
675 exp_rs_add_1
676 5747it [02:08, 145.36it/s]exp_rs_add_1
677 exp_rs_add_1
678 exp_rs_add_1
679 exp_rs_add_1
680 6299it [02:22, 113.43it/s]exp_rs_add_1
681 exp_rs_add_1
682 exp_rs_add_1
683 6359it [02:34, 18.81it/s] exp_rs_add_1
684 6871it [02:35, 137.64it/s]exp_rs_add_1
685 exp_rs_add_1
686 exp_rs_add_1
687 exp_rs_add_1
688 7497it [02:48, 154.50it/s]exp_rs_add_1
689 exp_rs_add_1
690 exp_rs_add_1
691 exp_rs_add_1
692 8060it [03:01, 118.98it/s]exp_rs_add_1
693 exp_rs_add_1
694 exp_rs_add_1
```

```
695 8093it [03:14, 17.39it/s] exp_rs_add_1
696 8655it [03:14, 152.66it/s]exp_rs_add_1
697 exp_rs_add_1
698 exp_rs_add_1
699 exp_rs_add_1
700 9194it [03:28, 113.89it/s]exp_rs_add_1
701 exp_rs_add_1
702 exp_rs_add_1
703 exp_rs_add_1
704 9819it [03:41, 145.63it/s]exp_rs_add_1
705 exp_rs_add_1
706 exp_rs_add_1
707 9826it [03:53, 145.63it/s]exp_rs_add_1
708 10328it [03:54, 141.48it/s]exp_rs_add_1
709 exp_rs_add_1
710 exp_rs_add_1
711 exp_rs_add_1
712 10907it [04:08, 146.35it/s]exp_rs_add_1
713 exp_rs_add_1
714 exp_rs_add_1
715 exp_rs_add_1
716 11544it [04:21, 155.10it/s]exp_rs_add_1
717 exp_rs_add_1
718 epoch number 19
719 exp_rs_add_1
720 exp_rs_add_1
721 11560it [04:33, 155.10it/s]exp_rs_add_1
722 exp_rs_add_1
723 global t is : 4
724 test epoch results {'accuracy': 0.5797385620915033
    , 'f1_weighted': 0.5480810812495086, 'f1_macro': 0.
4587248907266569, 'f1': array([0.84987277, 0.
14634146, 0.52380952, 0.19753086, 0.59242762,
725      0.02222222, 0.65551839, 0.58925477, 0.
55154639]), 'precision': array([0.84343434, 0.75
    , 0.62857143, 0.42105263, 0.56595745,
726      1.        , 0.784        , 0.48433048, 0.
55729167]), 'recall': array([0.85641026, 0.08108108
    , 0.44897959, 0.12903226, 0.62149533,
727      0.01123596, 0.56321839, 0.75221239, 0.
54591837])}
728 val epoch results {'accuracy': 0.6003898635477583, '
f1_weighted': 0.5635656372615868, 'f1_macro': 0.
4503355482270483, 'f1': array([0.86363636, 0
```

```
728 . , 0.48 , 0.28125 , 0.56934307,  
729 0. , 0.60377358, 0.6443299 , 0.  
61068702]), 'precision': array([0.85074627, 0  
. , 0.66666667, 0.42857143, 0.56521739,  
730 0. , 0.66666667, 0.52966102, 0.  
63492063]), 'recall': array([0.87692308, 0  
. , 0.375 , 0.20930233, 0.57352941,  
731 0. , 0.55172414, 0.82236842, 0.  
58823529])}  
732 11560it [04:35, 41.89it/s]  
733 ['there is significant damage homes losses no  
electricity water has been restored\n']  
734 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
735 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 167.23it/s]  
736 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
7f9e1dae0d98558e/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
737 100%|██████████| 1/1 [00:00<00:00, 110.70it/s]  
738 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
7f9e1dae0d98558e/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
739 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
740 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 163.08it/s]  
741 Generating train split: 0 examples [00:00, ?  
examples/s]Downloading and preparing dataset csv/  
default to C:/Users/admin/.cache/huggingface/  
datasets/csv/default-2cb2bd12890b1925/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...  
742 100%|██████████| 1/1 [00:00<00:00, 90.73it/s]  
743 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
2cb2bd12890b1925/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.  
744 Downloading data files: 100%|██████████| 1/1 [00:00
```

```
744 <?, ?it/s]
745 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-c256269cc1fc9383/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
746 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 143.34it/s]
747 100%|██████████| 1/1 [00:00<00:00, 88.25it/s]
748 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
c256269cc1fc9383/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
749 Downloading data files: 100%|██████████| 1/1 [00:00
<?, ?it/s]
750 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-ef924e0d5305078e/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
751 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 11.89it/s]
752 100%|██████████| 1/1 [00:00<00:00, 38.00it/s]
753 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
ef924e0d5305078e/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
754 t is : 5
755 addlen is: 2500
756 noexp_df.shape[0] last 8741
757 unexplained dataset length is:
758 8741
759 embedding begin
760 trian and val dataset length: 79380
761 exp_rs_add_1
762 exp_rs_add_1
763 exp_rs_add_1
764 exp_rs_add_1
765 exp_rs_add_1
766 exp_rs_add_1
767 exp_rs_add_1
```

```
768 exp_rs_add_1
769 567.0
770 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
771 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-4c58e2fe9b1fe748/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
772 100%|██████████| 1/1 [00:00<00:00, 251.08it/s]
773 test len 22470
774 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
48a4533d42ff2062/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
775 Downloading data files: 100%|██████████| 1/1 [00:00<
00:00, 1001.51it/s]
776 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 125.53it/s]
777 100%|██████████| 1/1 [00:00<00:00, 71.86it/s]
778 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
48a4533d42ff2062/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
779 preprocess_samples begin ...
780 uncertainty shape: 1530
781 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
782 classify begin
783 5711
784 0%|          | 0/20 [00:00<?, ?it/s]exp_rs_add_1
785 exp_rs_add_1
786 618it [00:08, 317.90it/s]exp_rs_add_1
787 exp_rs_add_1
788 exp_rs_add_1
789 exp_rs_add_1
790 1262it [00:22, 192.00it/s]exp_rs_add_1
791 exp_rs_add_1
792 exp_rs_add_1
793 exp_rs_add_1
794 1872it [00:37, 177.06it/s]exp_rs_add_1
795 exp_rs_add_1
```

```
796 exp_rs_add_1
797 exp_rs_add_1
798 2548it [00:52, 295.97it/s]exp_rs_add_1
799 exp_rs_add_1
800 exp_rs_add_1
801 2553it [01:06, 9.56it/s] exp_rs_add_1
802 3132it [01:07, 237.42it/s]exp_rs_add_1
803 exp_rs_add_1
804 exp_rs_add_1
805 exp_rs_add_1
806 3781it [01:22, 239.71it/s]exp_rs_add_1
807 exp_rs_add_1
808 exp_rs_add_1
809 3829it [01:35, 14.05it/s] exp_rs_add_1
810 4402it [01:36, 177.87it/s]exp_rs_add_1
811 exp_rs_add_1
812 exp_rs_add_1
813 exp_rs_add_1
814 5065it [01:50, 192.11it/s]exp_rs_add_1
815 exp_rs_add_1
816 exp_rs_add_1
817 5105it [02:03, 16.68it/s] exp_rs_add_1
818 5684it [02:04, 184.54it/s]exp_rs_add_1
819 exp_rs_add_1
820 exp_rs_add_1
821 exp_rs_add_1
822 6349it [02:17, 182.96it/s]exp_rs_add_1
823 exp_rs_add_1
824 exp_rs_add_1
825 exp_rs_add_1
826 6950it [02:31, 174.39it/s]exp_rs_add_1
827 exp_rs_add_1
828 exp_rs_add_1
829 7018it [02:42, 174.39it/s]exp_rs_add_1
830 7627it [02:46, 238.27it/s]exp_rs_add_1
831 exp_rs_add_1
832 exp_rs_add_1
833 exp_rs_add_1
834 8249it [03:01, 207.21it/s]exp_rs_add_1
835 exp_rs_add_1
836 exp_rs_add_1
837 8294it [03:12, 207.21it/s]exp_rs_add_1
838 8923it [03:16, 230.25it/s]exp_rs_add_1
839 exp_rs_add_1
```

```
840 exp_rs_add_1
841 exp_rs_add_1
842 9551it [03:31, 179.04it/s]exp_rs_add_1
843 exp_rs_add_1
844 exp_rs_add_1
845 9571it [03:44, 14.77it/s] exp_rs_add_1
846 10195it [03:44, 236.36it/s]exp_rs_add_1
847 exp_rs_add_1
848 exp_rs_add_1
849 exp_rs_add_1
850 10821it [03:58, 177.54it/s]exp_rs_add_1
851 exp_rs_add_1
852 exp_rs_add_1
853 exp_rs_add_1
854 11462it [04:12, 184.55it/s]exp_rs_add_1
855 exp_rs_add_1
856 exp_rs_add_1
857 11485it [04:25, 15.04it/s] exp_rs_add_1
858 12108it [04:26, 229.05it/s]exp_rs_add_1
859 exp_rs_add_1
860 exp_rs_add_1
861 exp_rs_add_1
862 12756it [04:41, 199.03it/s]exp_rs_add_1
863 exp_rs_add_1
864 epoch number 19
865 12760it [04:52, 199.03it/s]exp_rs_add_1
866 exp_rs_add_1
867 exp_rs_add_1
868 exp_rs_add_1
869 global t is : 5
870 test epoch results {'accuracy': 0.5980392156862745
, 'f1_weighted': 0.567567877797384, 'f1_macro': 0.
4617408612281328, 'f1': array([0.85714286, 0.
09756098, 0.3902439 , 0.27160494, 0.59340659,
0.06382979, 0.67320261, 0.61764706, 0.
59102902]), 'precision': array([0.86842105, 0.5
, 0.48484848, 0.57894737, 0.56016598,
0.6 , 0.78030303, 0.50710227, 0.
61202186]), 'recall': array([0.84615385, 0.05405405
, 0.32653061, 0.17741935, 0.63084112,
0.03370787, 0.59195402, 0.78982301, 0.
57142857])}
874 val epoch results {'accuracy': 0.599647266313933, '
f1_weighted': 0.5658403497338181, 'f1_macro': 0.
```

```
874 44799487209073763, 'f1': array([0.84      , 0
875 .          , 0.32      , 0.33846154, 0.525      ,
876 0.15384615, 0.55238095, 0.65437788, 0.
877 64788732]), 'precision': array([0.80769231, 0
878 .          , 0.5      , 0.64705882, 0.5      ,
879 0.5      , 0.74358974, 0.53383459, 0.
880 66666667]), 'recall': array([0.875     , 0
881 .          , 0.23529412, 0.22916667, 0.55263158,
882 0.09090909, 0.43939394, 0.8452381 , 0.
883 63013699])}
884 12760it [04:59, 42.54it/s]
885 ['people are offering to help volunteering donations
give $ money generously\n']
886 Downloading data files: 100%|██████████| 1/1 [00:00<
887 00:00, 983.19it/s]
888 Extracting data files: 100%|██████████| 1/1 [00:00<
889 00:00, 122.25it/s]
890 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-2f7d1d51869d2465/0.0.0/
891 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
892 3bcc7ec513e1...
893 100%|██████████| 1/1 [00:00<00:00, 55.74it/s]
894 Dataset csv downloaded and prepared to C:/Users/
895 admin/.cache/huggingface/datasets/csv/default-
896 2f7d1d51869d2465/0.0.0/
897 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
898 3bcc7ec513e1. Subsequent calls will reuse this data.
899 Downloading data files: 100%|██████████| 1/1 [00:00<
900 00:00, ?it/s]
901 Extracting data files: 100%|██████████| 1/1 [00:00<
902 00:00, 125.26it/s]
903 Downloading and preparing dataset csv/default to C:/Users/admin/.cache/huggingface/datasets/csv/default-eab67c607d47afbb/0.0.0/
904 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
905 3bcc7ec513e1...
906 100%|██████████| 1/1 [00:00<00:00, 63.34it/s]
907 Dataset csv downloaded and prepared to C:/Users/
908 admin/.cache/huggingface/datasets/csv/default-
909 eab67c607d47afbb/0.0.0/
910 6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
911 3bcc7ec513e1. Subsequent calls will reuse this data.
912 Downloading data files: 100%|██████████| 1/1 [00:00
```

```
890 <?, ?it/s]
891 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 143.34it/s]
892 Downloading and preparing dataset csv/default to C:/  
Users/admin/.cache/huggingface/datasets/csv/default-  
3e18d5b787b5d9f3/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...
893 100%|██████████| 1/1 [00:00<00:00, 71.65it/s]
894 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
3e18d5b787b5d9f3/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.
895 Downloading data files: 100%|██████████| 1/1 [00:00<  
00:00, 1002.94it/s]
896 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-acc54ff17eb6b0b1/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1...
897 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 9.93it/s]
898 100%|██████████| 1/1 [00:00<00:00, 66.84it/s]
899 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
acc54ff17eb6b0b1/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85  
3bcc7ec513e1. Subsequent calls will reuse this data.
900 t is : 6
901 addlen is: 3000
902 noexp_df.shape[0] last 8241
903 unexplained dataset length is:
904 8241
905 embedding begin
906 trian and val dataset length: 93150
907 exp_rs_add_1
908 exp_rs_add_1
909 exp_rs_add_1
910 exp_rs_add_1
911 exp_rs_add_1
912 exp_rs_add_1
913 exp_rs_add_1
```

```
914 exp_rs_add_1
915 621.0
916 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
917 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-4c58e2fe9b1fe748/0.
0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1)
918 100%|██████████| 1/1 [00:00<00:00, 91.19it/s]
919 test len 24075
920 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
921 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 142.41it/s]
922 Downloading and preparing dataset csv/default to C:/_
Users/admin/.cache/huggingface/datasets/csv/default-
7ddfbbe5f34ca9e0/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1...
923 100%|██████████| 1/1 [00:00<00:00, 87.77it/s]
924 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
7ddfbbe5f34ca9e0/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc85
3bcc7ec513e1. Subsequent calls will reuse this data.
925 preprocess_samples begin ...
926 uncertainty shape: 1530
927 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
928 classify begin
929 6211
930 0%|          | 0/20 [00:00<?, ?it/s]exp_rs_add_1
931 exp_rs_add_1
932 659it [00:14, 200.57it/s]exp_rs_add_1
933 exp_rs_add_1
934 exp_rs_add_1
935 exp_rs_add_1
936 1382it [00:28, 198.28it/s]exp_rs_add_1
937 exp_rs_add_1
938 exp_rs_add_1
939 exp_rs_add_1
940 2065it [00:41, 197.68it/s]exp_rs_add_1
941 exp_rs_add_1
```

```
942 exp_rs_add_1
943 exp_rs_add_1
944 2739it [00:55, 195.62it/s]exp_rs_add_1
945 exp_rs_add_1
946 exp_rs_add_1
947 exp_rs_add_1
948 3427it [01:08, 201.42it/s]exp_rs_add_1
949 exp_rs_add_1
950 exp_rs_add_1
951 exp_rs_add_1
952 4167it [01:21, 216.14it/s]exp_rs_add_1
953 exp_rs_add_1
954 exp_rs_add_1
955 exp_rs_add_1
956 4821it [01:35, 165.31it/s]exp_rs_add_1
957 exp_rs_add_1
958 exp_rs_add_1
959 exp_rs_add_1
960 5506it [01:48, 167.53it/s]exp_rs_add_1
961 exp_rs_add_1
962 exp_rs_add_1
963 exp_rs_add_1
964 6270it [02:01, 217.55it/s]exp_rs_add_1
965 exp_rs_add_1
966 exp_rs_add_1
967 exp_rs_add_1
968 6937it [02:14, 167.14it/s]exp_rs_add_1
969 exp_rs_add_1
970 exp_rs_add_1
971 exp_rs_add_1
972 7629it [02:28, 184.51it/s]exp_rs_add_1
973 exp_rs_add_1
974 exp_rs_add_1
975 7690it [02:41, 18.08it/s] exp_rs_add_1
976 8359it [02:42, 251.93it/s]exp_rs_add_1
977 exp_rs_add_1
978 exp_rs_add_1
979 exp_rs_add_1
980 9036it [02:55, 198.27it/s]exp_rs_add_1
981 exp_rs_add_1
982 exp_rs_add_1
983 exp_rs_add_1
984 9763it [03:09, 213.19it/s]exp_rs_add_1
985 exp_rs_add_1
```

```
986 exp_rs_add_1
987 9787it [03:21, 17.51it/s] exp_rs_add_1
988 10423it [03:22, 214.34it/s] exp_rs_add_1
989 exp_rs_add_1
990 exp_rs_add_1
991 exp_rs_add_1
992 11169it [03:35, 218.60it/s] exp_rs_add_1
993 exp_rs_add_1
994 exp_rs_add_1
995 exp_rs_add_1
996 11809it [03:49, 160.00it/s] exp_rs_add_1
997 exp_rs_add_1
998 exp_rs_add_1
999 11884it [04:01, 20.63it/s] exp_rs_add_1
1000 12515it [04:02, 205.41it/s] exp_rs_add_1
1001 exp_rs_add_1
1002 exp_rs_add_1
1003 exp_rs_add_1
1004 13179it [04:15, 165.54it/s] exp_rs_add_1
1005 exp_rs_add_1
1006 exp_rs_add_1
1007 exp_rs_add_1
1008 13933it [04:29, 267.25it/s] exp_rs_add_1
1009 exp_rs_add_1
1010 epoch number 19
1011 exp_rs_add_1
1012 exp_rs_add_1
1013 13980it [04:41, 267.25it/s] exp_rs_add_1
1014 exp_rs_add_1
1015 global t is : 6
1016 test epoch results {'accuracy': 0.6124183006535948
    , 'f1_weighted': 0.5822993152943367, 'f1_macro': 0.
    4923853544958808, 'f1': array([0.84924623, 0.
    18604651, 0.52427184, 0.25      , 0.61097852,
1017      0.08247423, 0.69026549, 0.62836625, 0.
    60981912]), 'precision': array([0.83251232, 0.
    66666667, 0.5      , 0.55555556, 0.62439024,
1018      0.5      , 0.70909091, 0.52870091, 0.
    61780105]), 'recall': array([0.86666667, 0.10810811
    , 0.55102041, 0.16129032, 0.59813084,
1019      0.04494382, 0.67241379, 0.77433628, 0.
    60204082])}
1020 val epoch results {'accuracy': 0.6103059581320451
    , 'f1_weighted': 0.5797773825103378, 'f1_macro': 0.
```

```
1020 47740809606830226, 'f1': array([0.83529412, 0.  
11764706, 0.33333333, 0.35135135, 0.6375 ,  
1021 0.15384615, 0.64827586, 0.62882096, 0.  
59060403]), 'precision': array([0.77173913, 1  
. , 0.5 , 0.59090909, 0.65384615,  
1022 1. , 0.64383562, 0.52747253, 0.  
63768116]), 'recall': array([0.91025641, 0.0625  
, 0.25 , 0.25 , 0.62195122,  
1023 0.08333333, 0.65277778, 0.77837838, 0.55  
])}  
1024 13980it [04:44, 49.13it/s]  
1025 ['people are being warned asked to be careful tips  
and guidance\n']  
1026 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-83cfb0487508cc32/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1027 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1028 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 141.99it/s]  
1029 100%|██████████| 1/1 [00:00<00:00, 111.48it/s]  
1030 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
83cfb0487508cc32/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1031 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1032 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-3ba89da4929cad26/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1033 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 124.49it/s]  
1034 100%|██████████| 1/1 [00:00<00:00, 71.67it/s]  
1035 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
3ba89da4929cad26/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this
```

```
1035 data.  
1036 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
1037 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 125.41it/s]  
1038 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-334762bb7760fe27/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1039 100%|██████████| 1/1 [00:00<00:00, 100.30it/s]  
1040 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
334762bb7760fe27/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1041 Downloading data files: 100%|██████████| 1/1 [00:00  
<?, ?it/s]  
1042 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-e1ebaa5bb81b9bcd/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1043 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 8.96it/s]  
1044 0%|          | 0/1 [00:00<?, ?it/s]Dataset csv  
downloaded and prepared to C:/Users/admin/.cache/  
huggingface/datasets/csv/default-e1ebaa5bb81b9bcd/0  
.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1045 100%|██████████| 1/1 [00:00<00:00, 50.20it/s]  
1046 t is : 7  
1047 addlen is: 3500  
1048 noexp_df.shape[0] last 7741  
1049 unexplained dataset length is:  
1050 7741  
1051 embedding begin  
1052 trian and val dataset length: 106560  
1053 exp_rs_add_1  
1054 exp_rs_add_1  
1055 exp_rs_add_1
```

```
1056 exp_rs_add_1
1057 exp_rs_add_1
1058 exp_rs_add_1
1059 exp_rs_add_1
1060 exp_rs_add_1
1061 666.0
1062 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
1063 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-4c58e2fe9b1fe748/0
.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1)
1064 100%|██████████| 1/1 [00:00<00:00, 287.58it/s]
1065 test len 25680
1066 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-27407d40029e0c2d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1067 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
1068 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 132.09it/s]
1069 100%|██████████| 1/1 [00:00<00:00, 101.58it/s]
1070 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
27407d40029e0c2d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
1071 preprocess_samples begin ...
1072 uncertainty shape: 1530
1073 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
1074 classify begin
1075 6711
1076 0%|          | 0/20 [00:00<?, ?it/s]exp_rs_add_1
1077 exp_rs_add_1
1078 711it [00:08, 445.78it/s]exp_rs_add_1
1079 exp_rs_add_1
1080 exp_rs_add_1
1081 exp_rs_add_1
1082 1470it [00:23, 309.14it/s]exp_rs_add_1
```

```
1083 exp_rs_add_1
1084 exp_rs_add_1
1085 1501it [00:36, 13.43it/s] exp_rs_add_1
1086 2229it [00:38, 349.80it/s]exp_rs_add_1
1087 exp_rs_add_1
1088 exp_rs_add_1
1089 exp_rs_add_1
1090 2957it [00:52, 273.02it/s]exp_rs_add_1
1091 exp_rs_add_1
1092 exp_rs_add_1
1093 3001it [01:05, 15.47it/s] exp_rs_add_1
1094 3677it [01:06, 251.27it/s]exp_rs_add_1
1095 exp_rs_add_1
1096 exp_rs_add_1
1097 exp_rs_add_1
1098 4449it [01:20, 267.89it/s]exp_rs_add_1
1099 exp_rs_add_1
1100 exp_rs_add_1
1101 exp_rs_add_1
1102 5231it [01:34, 258.65it/s]exp_rs_add_1
1103 exp_rs_add_1
1104 exp_rs_add_1
1105 exp_rs_add_1
1106 5996it [01:49, 346.64it/s]exp_rs_add_1
1107 exp_rs_add_1
1108 exp_rs_add_1
1109 exp_rs_add_1
1110 6714it [02:03, 304.11it/s]exp_rs_add_1
1111 exp_rs_add_1
1112 exp_rs_add_1
1113 exp_rs_add_1
1114 7500it [02:18, 356.62it/s]exp_rs_add_1
1115 exp_rs_add_1
1116 exp_rs_add_1
1117 exp_rs_add_1
1118 8245it [02:33, 293.58it/s]exp_rs_add_1
1119 exp_rs_add_1
1120 exp_rs_add_1
1121 8251it [02:47, 8.20it/s] exp_rs_add_1
1122 8944it [02:48, 358.56it/s]exp_rs_add_1
1123 exp_rs_add_1
1124 exp_rs_add_1
1125 exp_rs_add_1
1126 9703it [03:02, 263.19it/s]exp_rs_add_1
```

```
1127 exp_rs_add_1
1128 exp_rs_add_1
1129 9751it [03:15, 18.34it/s] exp_rs_add_1
1130 10425it [03:15, 257.95it/s] exp_rs_add_1
1131 exp_rs_add_1
1132 exp_rs_add_1
1133 exp_rs_add_1
1134 11203it [03:29, 262.68it/s] exp_rs_add_1
1135 exp_rs_add_1
1136 exp_rs_add_1
1137 exp_rs_add_1
1138 11993it [03:44, 298.55it/s] exp_rs_add_1
1139 exp_rs_add_1
1140 exp_rs_add_1
1141 exp_rs_add_1
1142 12721it [03:59, 304.60it/s] exp_rs_add_1
1143 exp_rs_add_1
1144 exp_rs_add_1
1145 exp_rs_add_1
1146 13449it [04:13, 300.88it/s] exp_rs_add_1
1147 exp_rs_add_1
1148 exp_rs_add_1
1149 13501it [04:27, 14.74it/s] exp_rs_add_1
1150 14247it [04:28, 360.87it/s] exp_rs_add_1
1151 exp_rs_add_1
1152 exp_rs_add_1
1153 exp_rs_add_1
1154 14972it [04:43, 307.84it/s] exp_rs_add_1
1155 exp_rs_add_1
1156 epoch number 19
1157 exp_rs_add_1
1158 exp_rs_add_1
1159 15000it [04:53, 307.84it/s] exp_rs_add_1
1160 exp_rs_add_1
1161 global t is : 7
1162 test epoch results {'accuracy': 0.6078431372549019
, 'f1_weighted': 0.5815718023055586, 'f1_macro': 0.
4934265611669586, 'f1': array([0.8630491, 0.
17021277, 0.53061224, 0.27878788, 0.58560794,
1163 0.07920792, 0.68923077, 0.61913043, 0.625
]), 'precision': array([0.86979167, 0.4
, 0.53061224, 0.56097561, 0.62433862,
1164 0.33333333, 0.74172185, 0.51002865, 0.
63829787]), 'recall': array([0.85641026, 0.10810811
```

```
1164 , 0.53061224, 0.18548387, 0.55140187,  
1165 0.04494382, 0.64367816, 0.78761062, 0.  
6122449 ]})  
1166 val epoch results {'accuracy': 0.6081081081081081  
, 'f1_weighted': 0.5826058494619933, 'f1_macro': 0.  
5103635545720199, 'f1': array([0.85393258, 0.  
27272727, 0.56410256, 0.24 , 0.56097561,  
1167 0.18181818, 0.68965517, 0.624 , 0.  
60606061]), 'precision': array([0.80851064, 0.6  
, 0.61111111, 0.42857143, 0.61333333,  
1168 0.66666667, 0.73529412, 0.51827243, 0.  
64102564]), 'recall': array([0.9047619 , 0.17647059  
, 0.52380952, 0.16666667, 0.51685393,  
1169 0.10526316, 0.64935065, 0.7839196 , 0.  
57471264])}  
1170 15000it [04:59, 50.10it/s]  
1171 ['contains useful information helps to understand  
the situation is important\n']  
1172 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1173 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 149.97it/s]  
1174 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-8ae730ceec81eaf6/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1175 Dataset csv downloaded and prepared to C:/Users/  
admin/.cache/huggingface/datasets/csv/default-  
8ae730ceec81eaf6/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1176 100%|██████████| 1/1 [00:00<00:00, 110.75it/s]  
1177 Downloading data files: 100%|██████████| 1/1 [00:00  
<, ?it/s]  
1178 Downloading and preparing dataset csv/default to C  
:/Users/admin/.cache/huggingface/datasets/csv/  
default-1dc0b36c5f308907/0.0.0/  
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8  
53bcc7ec513e1...  
1179 Extracting data files: 100%|██████████| 1/1 [00:00<  
00:00, 168.44it/s]  
1180 100%|██████████| 1/1 [00:00<00:00, 77.15it/s]
```

```
1181 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    1dc0b36c5f308907/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1182 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1183 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-1437ba20ca224690/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1184 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 167.35it/s]
1185 100%|██████████| 1/1 [00:00<00:00, 99.65it/s]
1186 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    1437ba20ca224690/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1187 Downloading data files: 100%|██████████| 1/1 [00:00
    <, ?it/s]
1188 Extracting data files: 100%|██████████| 1/1 [00:00<
    00:00, 133.05it/s]
1189 Downloading and preparing dataset csv/default to C
    :/Users/admin/.cache/huggingface/datasets/csv/
    default-bdca80efd042a189/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1...
1190 100%|██████████| 1/1 [00:00<00:00, 104.78it/s]
1191 Dataset csv downloaded and prepared to C:/Users/
    admin/.cache/huggingface/datasets/csv/default-
    bdca80efd042a189/0.0.0/
    6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
    53bcc7ec513e1. Subsequent calls will reuse this
    data.
1192 t is : 8
1193 addlen is: 4000
1194 noexp_df.shape[0] last 7241
1195 unexplained dataset length is:
1196 7241
1197 embedding begin
```

```
1198 trian and val dataset length: 122400
1199 exp_rs_add_1
1200 exp_rs_add_1
1201 exp_rs_add_1
1202 exp_rs_add_1
1203 exp_rs_add_1
1204 exp_rs_add_1
1205 exp_rs_add_1
1206 exp_rs_add_1
1207 720.0
1208 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
1209 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-4c58e2fe9b1fe748/0
.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1)
1210 100%|██████████| 1/1 [00:00<00:00, 45.61it/s]
1211 test len 27285
1212 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-3be0521073ab2234/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1213 Downloading data files: 100%|██████████| 1/1 [00:00
<00:00, 945.73it/s]
1214 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 111.30it/s]
1215 100%|██████████| 1/1 [00:00<00:00, 77.29it/s]
1216 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
3be0521073ab2234/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
1217 preprocess_samples begin ...
1218 uncertainty shape: 1530
1219 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
1220 classify begin
1221 7211
1222 0% | 0/20 [00:00<?, ?it/s]exp_rs_add_1
1223 exp_rs_add_1
1224 755it [00:15, 301.72it/s]exp_rs_add_1
```

```
1225 exp_rs_add_1
1226 exp_rs_add_1
1227 exp_rs_add_1
1228 1602it [00:28, 326.94it/s]exp_rs_add_1
1229 exp_rs_add_1
1230 exp_rs_add_1
1231 1620it [00:42, 326.94it/s]exp_rs_add_1
1232 2422it [00:44, 404.76it/s]exp_rs_add_1
1233 exp_rs_add_1
1234 exp_rs_add_1
1235 exp_rs_add_1
1236 3197it [00:58, 344.61it/s]exp_rs_add_1
1237 exp_rs_add_1
1238 exp_rs_add_1
1239 exp_rs_add_1
1240 4023it [01:13, 381.58it/s]exp_rs_add_1
1241 exp_rs_add_1
1242 exp_rs_add_1
1243 exp_rs_add_1
1244 4802it [01:28, 337.72it/s]exp_rs_add_1
1245 exp_rs_add_1
1246 exp_rs_add_1
1247 exp_rs_add_1
1248 5640it [01:43, 400.51it/s]exp_rs_add_1
1249 exp_rs_add_1
1250 exp_rs_add_1
1251 exp_rs_add_1
1252 6467it [01:58, 315.91it/s]exp_rs_add_1
1253 exp_rs_add_1
1254 exp_rs_add_1
1255 exp_rs_add_1
1256 7257it [02:12, 260.77it/s]exp_rs_add_1
1257 exp_rs_add_1
1258 exp_rs_add_1
1259 7291it [02:24, 17.49it/s] exp_rs_add_1
1260 8061it [02:25, 333.27it/s]exp_rs_add_1
1261 exp_rs_add_1
1262 exp_rs_add_1
1263 exp_rs_add_1
1264 8905it [02:40, 355.80it/s]exp_rs_add_1
1265 exp_rs_add_1
1266 exp_rs_add_1
1267 8911it [02:54, 11.68it/s] exp_rs_add_1
1268 9674it [02:55, 393.00it/s]exp_rs_add_1
```

```
1269 exp_rs_add_1
1270 exp_rs_add_1
1271 exp_rs_add_1
1272 10511it [03:10, 377.99it/s]exp_rs_add_1
1273 exp_rs_add_1
1274 exp_rs_add_1
1275 10531it [03:23, 11.68it/s] exp_rs_add_1
1276 11298it [03:25, 404.72it/s]exp_rs_add_1
1277 exp_rs_add_1
1278 exp_rs_add_1
1279 exp_rs_add_1
1280 12137it [03:40, 402.65it/s]exp_rs_add_1
1281 exp_rs_add_1
1282 exp_rs_add_1
1283 12151it [03:53, 11.86it/s] exp_rs_add_1
1284 12936it [03:54, 397.57it/s]exp_rs_add_1
1285 exp_rs_add_1
1286 exp_rs_add_1
1287 exp_rs_add_1
1288 13690it [04:08, 254.43it/s]exp_rs_add_1
1289 exp_rs_add_1
1290 exp_rs_add_1
1291 exp_rs_add_1
1292 14529it [04:22, 319.14it/s]exp_rs_add_1
1293 exp_rs_add_1
1294 exp_rs_add_1
1295 14580it [04:32, 319.14it/s]exp_rs_add_1
1296 15384it [04:37, 408.45it/s]exp_rs_add_1
1297 exp_rs_add_1
1298 exp_rs_add_1
1299 exp_rs_add_1
1300 16183it [04:52, 368.04it/s]exp_rs_add_1
1301 exp_rs_add_1
1302 epoch number 19
1303 exp_rs_add_1
1304 exp_rs_add_1
1305 16200it [05:02, 368.04it/s]exp_rs_add_1
1306 exp_rs_add_1
1307 global t is : 8
1308 test epoch results {'accuracy': 0.6169934640522876
, 'f1_weighted': 0.5863893704967853, 'f1_macro': 0.
4949746180542756, 'f1': array([0.8688946 , 0.
17021277, 0.53846154, 0.24489796, 0.60592255,
1309 0.06315789, 0.7133758 , 0.62619254, 0.
```

```
1309 62365591]), 'precision': array([0.87113402, 0.4
1310 , 0.50909091, 0.7826087 , 0.59111111,
1311 0.5 , 0.8 , 0.5149786 , 0.
1312 65909091]), 'recall': array([0.86666667, 0.10810811
1313 , 0.57142857, 0.14516129, 0.62149533,
1314 0.03370787, 0.64367816, 0.79867257, 0.
1315 59183673])}
1316 val epoch results {'accuracy': 0.625, 'f1_weighted'
1317 ': 0.5920177661006066, 'f1_macro': 0.
1318 4938001626389835, 'f1': array([0.85 , 0.
1319 17391304, 0.53658537, 0.25 , 0.58128079,
1320 0.04444444, 0.7027027 , 0.66159696, 0.
1321 64367816]), 'precision': array([0.77981651, 0.4
1322 , 0.57894737, 0.47619048, 0.56190476,
1323 0.25 , 0.8 , 0.55948553, 0.
1324 69135802]), 'recall': array([0.93406593, 0.11111111
1325 , 0.5 , 0.16949153, 0.60204082,
1326 0.02439024, 0.62650602, 0.80930233, 0.
1327 60215054])}
1328 16200it [05:09, 52.32it/s]
1329 ['irrelevant not related']
1330 Downloading data files: 100%|██████████| 1/1 [00:00
1331 <, ?it/s]
1332 Extracting data files: 100%|██████████| 1/1 [00:00<
1333 00:00, 167.91it/s]
1334 Downloading and preparing dataset csv/default to C
1335 :/Users/admin/.cache/huggingface/datasets/csv/
1336 default-30e3f3944c99b7b8/0.0.0/
1337 6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
1338 53bcc7ec513e1...
1339 100%|██████████| 1/1 [00:00<00:00, 71.39it/s]
1340 Dataset csv downloaded and prepared to C:/Users/
1341 admin/.cache/huggingface/datasets/csv/default-
1342 30e3f3944c99b7b8/0.0.0/
1343 6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
1344 53bcc7ec513e1. Subsequent calls will reuse this
1345 data.
1346 Downloading data files: 100%|██████████| 1/1 [00:00
1347 <, ?it/s]
1348 Extracting data files: 100%|██████████| 1/1 [00:00<
1349 00:00, 166.97it/s]
1350 Downloading and preparing dataset csv/default to C
1351 :/Users/admin/.cache/huggingface/datasets/csv/
1352 default-38b7f315e6034ed7/0.0.0/
```

1325
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1326 100%|██████████| 1/1 [00:00<00:00, 62.51it/s]
1327 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
38b7f315e6034ed7/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
1328 Downloading data files: 100%|██████████| 1/1 [00:00
<00:00, 1010.92it/s]
1329 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-d6a83ba508a3cb3d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1330 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 125.01it/s]
1331 100%|██████████| 1/1 [00:00<00:00, 71.62it/s]
1332 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
d6a83ba508a3cb3d/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
1333 Downloading data files: 100%|██████████| 1/1 [00:00
<?, ?it/s]
1334 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-6ce3dcbcd812a094/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1335 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 143.38it/s]
1336 100%|██████████| 1/1 [00:00<00:00, 83.60it/s]
1337 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
6ce3dcbcd812a094/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
1338 t is : 9
1339 addlen is: 4500

```
1340 noexp_df.shape[0] last 6741
1341 unexplained dataset length is:
1342 6741
1343 embedding begin
1344 trian and val dataset length: 137700
1345 exp_rs_add_1
1346 exp_rs_add_1
1347 exp_rs_add_1
1348 exp_rs_add_1
1349 exp_rs_add_1
1350 exp_rs_add_1
1351 exp_rs_add_1
1352 exp_rs_add_1
1353 765.0
1354 ./embeddings/NEW_bertie_embeddings_textattack/bert-
base-uncased-MNLI_subset_1.pt
1355 Found cached dataset csv (C:/Users/admin/.cache/
huggingface/datasets/csv/default-4c58e2fe9b1fe748/0
.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1)
1356 100%|██████████| 1/1 [00:00<00:00, 661.77it/s]
1357 test len 28890
1358 Downloading and preparing dataset csv/default to C
:/Users/admin/.cache/huggingface/datasets/csv/
default-cfeb6fad6f73bfc2/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1359 Downloading data files: 100%|██████████| 1/1 [00:00
<00:00, 988.29it/s]
1360 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 126.10it/s]
1361 100%|██████████| 1/1 [00:00<00:00, 80.21it/s]
1362 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
cfeb6fad6f73bfc2/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
1363 preprocess_samples begin ...
1364 uncertainty shape: 1530
1365 ./test_embeddings/NEW_bertie_embeddings_textattack/
bert-base-uncased-MNLI_subset_1.pt
1366 classify begin
```

```
1367 7711
1368 0% | 0/20 [00:00<?, ?it/s]exp_rs_add_1
1369 exp_rs_add_1
1370 831it [00:09, 499.41it/s]exp_rs_add_1
1371 exp_rs_add_1
1372 exp_rs_add_1
1373 exp_rs_add_1
1374 1650it [00:22, 319.08it/s]exp_rs_add_1
1375 exp_rs_add_1
1376 exp_rs_add_1
1377 exp_rs_add_1
1378 2531it [00:36, 359.90it/s]exp_rs_add_1
1379 exp_rs_add_1
1380 exp_rs_add_1
1381 2584it [00:49, 17.13it/s] exp_rs_add_1
1382 3416it [00:50, 381.45it/s]exp_rs_add_1
1383 exp_rs_add_1
1384 exp_rs_add_1
1385 exp_rs_add_1
1386 4262it [01:06, 387.90it/s]exp_rs_add_1
1387 exp_rs_add_1
1388 exp_rs_add_1
1389 4306it [01:23, 10.97it/s] exp_rs_add_1
1390 5141it [01:26, 230.02it/s]exp_rs_add_1
1391 exp_rs_add_1
1392 exp_rs_add_1
1393 5167it [01:42, 5.81it/s] exp_rs_add_1
1394 5995it [01:43, 357.23it/s]exp_rs_add_1
1395 exp_rs_add_1
1396 exp_rs_add_1
1397 exp_rs_add_1
1398 6837it [01:56, 326.19it/s]exp_rs_add_1
1399 exp_rs_add_1
1400 exp_rs_add_1
1401 6889it [02:09, 18.40it/s] exp_rs_add_1
1402 7693it [02:10, 388.07it/s]exp_rs_add_1
1403 exp_rs_add_1
1404 exp_rs_add_1
1405 exp_rs_add_1
1406 8598it [02:24, 358.79it/s]exp_rs_add_1
1407 exp_rs_add_1
1408 exp_rs_add_1
1409 exp_rs_add_1
1410 9416it [02:38, 318.46it/s]exp_rs_add_1
```

```
1411 exp_rs_add_1
1412 exp_rs_add_1
1413 9472it [02:51, 18.34it/s] exp_rs_add_1
1414 10269it [02:52, 371.07it/s]exp_rs_add_1
1415 exp_rs_add_1
1416 exp_rs_add_1
1417 exp_rs_add_1
1418 11118it [03:06, 331.18it/s]exp_rs_add_1
1419 exp_rs_add_1
1420 exp_rs_add_1
1421 11194it [03:19, 20.76it/s] exp_rs_add_1
1422 12048it [03:20, 406.68it/s]exp_rs_add_1
1423 exp_rs_add_1
1424 exp_rs_add_1
1425 exp_rs_add_1
1426 12828it [03:33, 272.15it/s]exp_rs_add_1
1427 exp_rs_add_1
1428 exp_rs_add_1
1429 12916it [03:46, 21.59it/s] exp_rs_add_1
1430 13710it [03:47, 344.63it/s]exp_rs_add_1
1431 exp_rs_add_1
1432 exp_rs_add_1
1433 13777it [04:00, 20.70it/s] exp_rs_add_1
1434 14615it [04:01, 398.76it/s]exp_rs_add_1
1435 exp_rs_add_1
1436 exp_rs_add_1
1437 exp_rs_add_1
1438 15468it [04:14, 334.21it/s]exp_rs_add_1
1439 exp_rs_add_1
1440 exp_rs_add_1
1441 exp_rs_add_1
1442 16312it [04:28, 320.18it/s]exp_rs_add_1
1443 exp_rs_add_1
1444 exp_rs_add_1
1445 16360it [04:41, 18.44it/s] exp_rs_add_1
1446 17167it [04:42, 378.28it/s]exp_rs_add_1
1447 exp_rs_add_1
1448 epoch number 19
1449 exp_rs_add_1
1450 exp_rs_add_1
1451 exp_rs_add_1
1452 exp_rs_add_1
1453 global t is : 9
1454 17220it [04:57, 57.97it/s]
```

```
1455 test epoch results {'accuracy': 0.6215686274509804
, 'f1_weighted': 0.5939095583184577, 'f1_macro': 0.
5055923098750758, 'f1': array([0.86979167, 0.
21276596, 0.54205607, 0.28025478, 0.63982103,
1456 0.06060606, 0.68944099, 0.63090909, 0.
62468514]), 'precision': array([0.88359788, 0.5
, 0.5 , 0.66666667, 0.61373391,
1457 0.3 , 0.75 , 0.53549383, 0.
61691542]), 'recall': array([0.85641026, 0.13513514
, 0.59183673, 0.17741935, 0.6682243 ,
1458 0.03370787, 0.63793103, 0.76769912, 0.
63265306])}
1459 val epoch results {'accuracy': 0.6130718954248366
, 'f1_weighted': 0.5837330982091171, 'f1_macro': 0.
4860444382629857, 'f1': array([0.87628866, 0
. , 0.61904762, 0.3373494 , 0.58515284,
1460 0.08163265, 0.57142857, 0.64028777, 0.
66321244]), 'precision': array([0.86734694, 0
. , 0.72222222, 0.7 , 0.54032258,
1461 0.4 , 0.63013699, 0.54103343, 0.
68085106]), 'recall': array([0.88541667, 0
. , 0.54166667, 0.22222222, 0.63809524,
1462 0.04545455, 0.52272727, 0.78414097, 0.
64646465])}
1463 []
1464 Downloading data files: 100%|██████████| 1/1 [00:00
<00:00, 1850.97it/s]
1465 Extracting data files: 100%|██████████| 1/1 [00:00<
00:00, 126.41it/s]
1466 Generating train split: 0 examples [00:00, ?
examples/s]Downloading and preparing dataset csv/
default to C:/Users/admin/.cache/huggingface/
datasets/csv/default-ab611c7ea540dda5/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...
1467 100%|██████████| 1/1 [00:00<00:00, 76.87it/s]
1468 Dataset csv downloaded and prepared to C:/Users/
admin/.cache/huggingface/datasets/csv/default-
ab611c7ea540dda5/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this
data.
1469 Downloading data files: 100%|██████████| 1/1 [00:00
<, ?it/s]
```

1470 Downloading and preparing dataset csv/default to C :/Users/admin/.cache/huggingface/datasets/csv/default-a65aa4f00bbce271/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...

1471 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 143.37it/s]

1472 100%|██████████| 1/1 [00:00<00:00, 76.39it/s]

1473 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-a65aa4f00bbce271/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this data.

1474 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]

1475 Downloading and preparing dataset csv/default to C :/Users/admin/.cache/huggingface/datasets/csv/default-b27985b64c5e0f34/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...

1476 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 21.93it/s]

1477 100%|██████████| 1/1 [00:00<00:00, 84.89it/s]

1478 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-b27985b64c5e0f34/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1. Subsequent calls will reuse this data.

1479 Downloading data files: 100%|██████████| 1/1 [00:00<?, ?it/s]

1480 Downloading and preparing dataset csv/default to C :/Users/admin/.cache/huggingface/datasets/csv/default-ba187492d8f86df7/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8
53bcc7ec513e1...

1481 Extracting data files: 100%|██████████| 1/1 [00:00<00:00, 163.28it/s]

1482 100%|██████████| 1/1 [00:00<00:00, 99.87it/s]

1483 Dataset csv downloaded and prepared to C:/Users/admin/.cache/huggingface/datasets/csv/default-ba187492d8f86df7/0.0.0/
6954658bab30a358235fa864b05cf819af0e179325c740e4bc8

```
1483 53bcc7ec513e1. Subsequent calls will reuse this  
data.  
1484 t is : 10  
1485 addlen is: 5000  
1486  
1487 Process finished with exit code 0  
1488
```