

Inference from PC

31 March 2025 20:57

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C:\Users\rljam\PycharmProjects\gen_ai\Gen_AI_Cr2_Proj_5.0\.venv\Scripts\python.exe C:\Users\rljam\PycharmProjects\gen_ai\Gen_AI_Cr2_Proj_5.0\Inference.py
Test#1 This is train_dataset: <class 'datasets.arrow_dataset.Dataset'>; content: Dataset({
    features: ['text', 'label', 'source'],
    num_rows: 8241
})
Test#2 This is eval_dataset: <class 'datasets.arrow_dataset.Dataset'>; content: Dataset({
    features: ['text', 'label', 'source'],
    num_rows: 1126
})
Test#5           text  label  source  split
0  also I was the point person on my company str...  0  MELD train
1      You must ve had your hands full.  0  MELD train
2          That I did. That I did.  0  MELD train
3  So let s talk a little bit about your duties.  0  MELD train
4          My duties? All right.  1  MELD train
Test#5.1 This is combined dataset: <class 'datasets.arrow_dataset.Dataset'>; content: Dataset({
    features: ['text', 'label', 'source', 'split'],
    num_rows: 9367
})
Map: 100% [██████████] | 9367/9367 [00:01<00:00, 7426.38 examples/s]
Some weights of DistilBertForSequenceClassification were not initialized from the model checkpoint at distilbert-base-uncased and are newly initialized: ['classifier.bias', 'classifier.weight', 'pre_classifier.bias', 'pre_classifier.weight']
You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference.
trainable params: 890,887 || all params: 67,849,742 || trainable%: 1.3130
Test# 7.5 Loaded PEFT-wrapped model:
PeftModelForSequenceClassification(
    (base_model): LoraModel(
        (model): DistilBertForSequenceClassification(
            (distilbert): DistilBertModel(
                (embeddings): Embeddings(
                    (word_embeddings): Embedding(30522, 768, padding_idx=0)
                    (position_embeddings): Embedding(512, 768)
                    (LayerNorm): LayerNorm((768,), eps=1e-12, elementwise_affine=True)
                    (dropout): Dropout(p=0.1, inplace=False)
                )
                (transformer): Transformer(
                    (layer): ModuleList(
                        (0-5): 6 x TransformerBlock(
                            (attention): DistilBertSdpAttention(
                                (dropout): Dropout(p=0.1, inplace=False)
                                (q_lin): lora.Linear(
                                    (base_layer): Linear(in_features=768, out_features=768, bias=True)
                                    (lora_dropout): ModuleDict(
                                        (default): Dropout(p=0.1, inplace=False)
                                    )
                                    (lora_A): ModuleDict(
                                        (default): Linear(in_features=768, out_features=8, bias=False)
                                    )
                                    (lora_B): ModuleDict(
                                        (default): Linear(in_features=8, out_features=768, bias=False)
                                    )
                                    (lora_embedding_A): ParameterDict()
                                    (lora_embedding_B): ParameterDict()
                                    (lora_magnitude_vector): ModuleDict()
                                )
                                (k_lin): lora.Linear(
                                    (base_layer): Linear(in_features=768, out_features=768, bias=True)
                                    (lora_dropout): ModuleDict(
                                        (default): Dropout(p=0.1, inplace=False)
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                                    (lora_A): ModuleDict(
                                        (default): Linear(in_features=768, out_features=8, bias=False)
                                    )
                                    (lora_B): ModuleDict(
                                        (default): Linear(in_features=8, out_features=768, bias=False)
                                    )
                                    (lora_embedding_A): ParameterDict()
                                    (lora_embedding_B): ParameterDict()
                                    (lora_magnitude_vector): ModuleDict()
                                )
                                (v_lin): lora.Linear(
                                    (base_layer): Linear(in_features=768, out_features=768, bias=True)
                                    (lora_dropout): ModuleDict(
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                                    (lora_A): ModuleDict(
                                        (default): Linear(in_features=768, out_features=8, bias=False)
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                                    (lora_B): ModuleDict(
                                        (default): Linear(in_features=8, out_features=768, bias=False)
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)
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| 31% | [REDACTED] | 87/282 [00:42<01:37, 2.00it/s] |
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| 33% | [REDACTED] | 94/282 [00:46<01:32, 2.03it/s] |
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| 37% | [REDACTED] | 104/282 [00:50<01:28, 2.01it/s] |
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| 40% | [REDACTED] | 114/282 [00:55<01:24, 2.00it/s] |
| 41% | [REDACTED] | 115/282 [00:56<01:23, 2.00it/s] |
| 41% | [REDACTED] | 116/282 [00:56<01:23, 2.00it/s] |
| 41% | [REDACTED] | 117/282 [00:57<01:22, 2.00it/s] |
| 42% | [REDACTED] | 118/282 [00:57<01:21, 2.01it/s] |
| 42% | [REDACTED] | 119/282 [00:58<01:21, 2.01it/s] |
| 43% | [REDACTED] | 120/282 [00:58<01:20, 2.00it/s] |
| 43% | [REDACTED] | 121/282 [00:59<01:21, 1.98it/s] |
| 43% | [REDACTED] | 122/282 [00:59<01:20, 1.99it/s] |
| 44% | [REDACTED] | 123/282 [01:00<01:19, 2.01it/s] |
| 44% | [REDACTED] | 124/282 [01:00<01:18, 2.02it/s] |
| 44% | [REDACTED] | 125/282 [01:01<01:17, 2.02it/s] |
| 45% | [REDACTED] | 126/282 [01:01<01:17, 2.02it/s] |
| 45% | [REDACTED] | 127/282 [01:02<01:17, 2.01it/s] |
| 45% | [REDACTED] | 128/282 [01:02<01:16, 2.00it/s] |
| 46% | [REDACTED] | 129/282 [01:03<01:17, 1.97it/s] |
| 46% | [REDACTED] | 130/282 [01:04<01:16, 1.98it/s] |
| 46% | [REDACTED] | 131/282 [01:04<01:16, 1.98it/s] |
| 47% | [REDACTED] | 132/282 [01:04<01:15, 1.99it/s] |
| 47% | [REDACTED] | 133/282 [01:05<01:14, 2.01it/s] |
| 48% | [REDACTED] | 134/282 [01:05<01:13, 2.01it/s] |
| 48% | [REDACTED] | 135/282 [01:06<01:13, 2.00it/s] |
| 48% | [REDACTED] | 136/282 [01:06<01:12, 2.00it/s] |
| 49% | [REDACTED] | 137/282 [01:07<01:12, 2.00it/s] |
| 49% | [REDACTED] | 138/282 [01:07<01:11, 2.01it/s] |
| 49% | [REDACTED] | 139/282 [01:08<01:11, 2.01it/s] |
| 50% | [REDACTED] | 140/282 [01:08<01:10, 2.01it/s] |
| 50% | [REDACTED] | 141/282 [01:09<01:10, 2.00it/s] |
| 50% | [REDACTED] | 142/282 [01:09<01:09, 2.01it/s] |
| 51% | [REDACTED] | 143/282 [01:10<01:08, 2.02it/s] |
| 51% | [REDACTED] | 144/282 [01:10<01:08, 2.02it/s] |
| 51% | [REDACTED] | 145/282 [01:11<01:07, 2.02it/s] |
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| 52% | [REDACTED] | 147/282 [01:12<01:06, 2.03it/s] |
| 52% | [REDACTED] | 148/282 [01:12<01:05, 2.03it/s] |
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| 54% | [REDACTED] | 151/282 [01:14<01:04, 2.02it/s] |
| 54% | [REDACTED] | 152/282 [01:14<01:04, 2.03it/s] |
| 54% | [REDACTED] | 153/282 [01:15<01:03, 2.03it/s] |
| 55% | [REDACTED] | 154/282 [01:15<01:03, 2.03it/s] |
| 55% | [REDACTED] | 155/282 [01:16<01:02, 2.03it/s] |
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| 56% | [REDACTED] | 157/282 [01:17<01:01, 2.03it/s] |
| 56% | [REDACTED] | 158/282 [01:17<01:00, 2.03it/s] |
| 56% | [REDACTED] | 159/282 [01:18<01:00, 2.03it/s] |
| 57% | [REDACTED] | 160/282 [01:18<01:00, 2.02it/s] |
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| 57% | [REDACTED] | 162/282 [01:19<00:59, 2.03it/s] |
| 58% | [REDACTED] | 163/282 [01:20<00:58, 2.03it/s] |
| 58% | [REDACTED] | 164/282 [01:20<00:58, 2.03it/s] |
| 59% | [REDACTED] | 165/282 [01:21<00:57, 2.03it/s] |
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| 59% | [REDACTED] | 167/282 [01:22<00:56, 2.04it/s] |
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| 60% | [REDACTED] | 170/282 [01:23<00:55, 2.03it/s] |
| 61% | [REDACTED] | 171/282 [01:24<00:54, 2.02it/s] |
| 61% | [REDACTED] | 172/282 [01:24<00:54, 2.02it/s] |
| 61% | [REDACTED] | 173/282 [01:25<00:53, 2.03it/s] |
| 62% | [REDACTED] | 174/282 [01:25<00:53, 2.03it/s] |
| 62% | [REDACTED] | 175/282 [01:26<00:52, 2.03it/s] |
| 62% | [REDACTED] | 176/282 [01:26<00:52, 2.03it/s] |
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| 67% | [REDACTED] | 189/282 [01:33<00:45, 2.04it/s] |
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| 68% | [REDACTED] | 193/282 [01:35<00:43, 2.03it/s] |
| 69% | [REDACTED] | 194/282 [01:35<00:43, 2.03it/s] |
| 69% | [REDACTED] | 195/282 [01:36<00:42, 2.03it/s] |
| 70% | [REDACTED] | 196/282 [01:36<00:42, 2.04it/s] |
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| 70% | [REDACTED] | 198/282 [01:37<00:41, 2.04it/s] |
| 71% | [REDACTED] | 199/282 [01:38<00:40, 2.05it/s] |
| 71% | [REDACTED] | 200/282 [01:38<00:40, 2.05it/s] |
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| 72% | [REDACTED] | 204/282 [01:40<00:38, 2.02it/s] |
| 73% | [REDACTED] | 205/282 [01:40<00:37, 2.03it/s] |
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| 74% | [REDACTED] | 210/282 [01:43<00:35, 2.04it/s] |
| 75% | [REDACTED] | 211/282 [01:43<00:34, 2.04it/s] |
| 75% | [REDACTED] | 212/282 [01:44<00:34, 2.03it/s] |
| 76% | [REDACTED] | 213/282 [01:44<00:34, 2.02it/s] |
| 76% | [REDACTED] | 214/282 [01:45<00:33, 2.03it/s] |
| 76% | [REDACTED] | 215/282 [01:45<00:33, 2.03it/s] |
| 77% | [REDACTED] | 216/282 [01:46<00:32, 2.03it/s] |
| 77% | [REDACTED] | 217/282 [01:46<00:31, 2.04it/s] |
| 77% | [REDACTED] | 218/282 [01:47<00:31, 2.04it/s] |
| 78% | [REDACTED] | 219/282 [01:47<00:30, 2.05it/s] |
| 78% | [REDACTED] | 220/282 [01:48<00:30, 2.04it/s] |
| 78% | [REDACTED] | 221/282 [01:48<00:29, 2.04it/s] |
| 79% | [REDACTED] | 222/282 [01:49<00:29, 2.04it/s] |
| 79% | [REDACTED] | 223/282 [01:49<00:28, 2.04it/s] |
| 79% | [REDACTED] | 224/282 [01:50<00:28, 2.05it/s] |
| 80% | [REDACTED] | 225/282 [01:50<00:27, 2.04it/s] |
| 80% | [REDACTED] | 226/282 [01:51<00:27, 2.04it/s] |
| 80% | [REDACTED] | 227/282 [01:51<00:27, 2.03it/s] |
| 81% | [REDACTED] | 228/282 [01:52<00:26, 2.04it/s] |
| 81% | [REDACTED] | 229/282 [01:52<00:26, 2.04it/s] |
| 82% | [REDACTED] | 230/282 [01:53<00:25, 2.03it/s] |
| 82% | [REDACTED] | 231/282 [01:53<00:25, 2.03it/s] |
| 82% | [REDACTED] | 232/282 [01:54<00:24, 2.02it/s] |
| 83% | [REDACTED] | 233/282 [01:54<00:24, 2.03it/s] |
| 83% | [REDACTED] | 234/282 [01:55<00:23, 2.03it/s] |
| 83% | [REDACTED] | 235/282 [01:55<00:23, 2.03it/s] |
| 84% | [REDACTED] | 236/282 [01:56<00:22, 2.02it/s] |
| 84% | [REDACTED] | 237/282 [01:56<00:22, 2.02it/s] |
| 84% | [REDACTED] | 238/282 [01:57<00:21, 2.02it/s] |
| 85% | [REDACTED] | 239/282 [01:57<00:21, 2.02it/s] |
| 85% | [REDACTED] | 240/282 [01:58<00:20, 2.01it/s] |

| | | |
|------|------------|-----------------------------------|
| 85% | [REDACTED] | 241/282 [01:58<00:20, 2.02it/s] |
| 86% | [REDACTED] | 242/282 [01:59<00:19, 2.02it/s] |
| 86% | [REDACTED] | 243/282 [01:59<00:19, 2.00it/s] |
| 87% | [REDACTED] | 244/282 [02:00<00:18, 2.00it/s] |
| 87% | [REDACTED] | 245/282 [02:00<00:18, 2.00it/s] |
| 87% | [REDACTED] | 246/282 [02:01<00:17, 2.00it/s] |
| 88% | [REDACTED] | 247/282 [02:01<00:17, 2.01it/s] |
| 88% | [REDACTED] | 248/282 [02:02<00:16, 2.01it/s] |
| 88% | [REDACTED] | 249/282 [02:02<00:16, 2.01it/s] |
| 89% | [REDACTED] | 250/282 [02:03<00:15, 2.01it/s] |
| 89% | [REDACTED] | 251/282 [02:03<00:15, 1.99it/s] |
| 89% | [REDACTED] | 252/282 [02:04<00:15, 2.00it/s] |
| 90% | [REDACTED] | 253/282 [02:04<00:14, 2.00it/s] |
| 90% | [REDACTED] | 254/282 [02:05<00:14, 2.00it/s] |
| 90% | [REDACTED] | 255/282 [02:05<00:13, 2.01it/s] |
| 91% | [REDACTED] | 256/282 [02:06<00:12, 2.02it/s] |
| 91% | [REDACTED] | 257/282 [02:06<00:12, 1.99it/s] |
| 91% | [REDACTED] | 258/282 [02:07<00:11, 2.01it/s] |
| 92% | [REDACTED] | 259/282 [02:07<00:11, 2.01it/s] |
| 92% | [REDACTED] | 260/282 [02:08<00:10, 2.01it/s] |
| 93% | [REDACTED] | 261/282 [02:08<00:10, 2.01it/s] |
| 93% | [REDACTED] | 262/282 [02:09<00:09, 2.00it/s] |
| 93% | [REDACTED] | 263/282 [02:09<00:09, 2.01it/s] |
| 94% | [REDACTED] | 264/282 [02:10<00:08, 2.01it/s] |
| 94% | [REDACTED] | 265/282 [02:10<00:08, 2.02it/s] |
| 94% | [REDACTED] | 266/282 [02:11<00:07, 2.02it/s] |
| 95% | [REDACTED] | 267/282 [02:11<00:07, 2.02it/s] |
| 95% | [REDACTED] | 268/282 [02:12<00:06, 2.02it/s] |
| 95% | [REDACTED] | 269/282 [02:12<00:06, 2.01it/s] |
| 96% | [REDACTED] | 270/282 [02:13<00:05, 2.02it/s] |
| 96% | [REDACTED] | 271/282 [02:13<00:05, 2.02it/s] |
| 96% | [REDACTED] | 272/282 [02:14<00:04, 2.01it/s] |
| 97% | [REDACTED] | 273/282 [02:14<00:04, 2.01it/s] |
| 97% | [REDACTED] | 274/282 [02:15<00:03, 2.01it/s] |
| 98% | [REDACTED] | 275/282 [02:15<00:03, 1.99it/s] |
| 98% | [REDACTED] | 276/282 [02:16<00:03, 2.00it/s] |
| 98% | [REDACTED] | 277/282 [02:16<00:02, 2.01it/s] |
| 99% | [REDACTED] | 278/282 [02:17<00:01, 2.01it/s] |
| 99% | [REDACTED] | 279/282 [02:17<00:01, 2.01it/s] |
| 99% | [REDACTED] | 280/282 [02:18<00:00, 2.01it/s] |
| 100% | [REDACTED] | 281/282 [02:18<00:00, 2.01it/s] |
| 100% | [REDACTED] | 2061/2061 [38:18<00:00, 1.28it/s] |
| 100% | [REDACTED] | 282/282 [02:18<00:00, 2.33it/s] |

Test#9 These are predicted labels [0 0 0 ... 0 0 0]

Test#10 This model accuracy 0.48312611012433393

```
{'eval_loss': 1.4765115976333618, 'eval_accuracy': 0.48312611012433393, 'eval_runtime': 139.4234, 'eval_samples_per_second': 8.076, 'eval_steps_per_second': 2.023, 'epoch': 1.0}
```

100%

{'train_runtime': 2298.73, 'train_samples_per_second': 3.585}

100% [██████████] 282/282 [02:37<00:00, 1.79it/s]

Test#9 These are predicted labels [0 0 0 ... 0 0 0]

Test#10 This model accuracy 0.48312611012433393

Test#10 This model accuracy 0.485120110124533595

Tabular Evaluation Metrics:

Eval Loss Eval Accuracy EV

Test#1 This is verification. dataset: <class 'datasets.ArrayDataset'> Dataset: <class 'Dataset'>

Test#1 This is verification_dataset: <class 'datasets.arrow_dataset.Dataset'>

features: ['text', 'label', 'source'],

num_rows: 4121

})

Some weights of DistilBertForSequenceClassification were not initialized from the model checkpoint at distilbert-base-uncased and are newly initialized: ['classifier.bias', 'classifier.weight', 'pre_classifier.bias', 'pre_classifier.weight']

You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference

C:\Users\rljam\PycharmProjects\gen_AI\Gen_AI_Cr2_Proj_5.0\Inference.py:62: FutureWarning: 'tokenizer' is deprecated and will be removed in version 5.0.0 for 'Trainer._init_'. Use 'processing_class' instead.

```
my_trainer = Trainer(  
No label_names provided for model class `PeftModelForSequenceClassification` . Since `PeftModel` hides base models input arguments, if label_names is not given, label_names  
can't be set automatically within `Trainer` . Note that empty label_names list will be used instead.  
100%|██████████| 1031/1031 [11:32<00:00, 1.49it/s]  
Predicted Labels: [0 0 0 ... 0 0 0]
```

Process finished with exit code 0