

Appendix of Biomedical relation extraction with knowledge base refined weak-supervision

1 Introduction

This appendix contains information on hyperparameter settings and the training log.

2 Hyperparameter settings

The hyperparameter settings employed in our study are presented below.

For the training of models on BC7-DrugProt datasets (including fine-tuning): learning rate=5e-06, epochs=200 for phase 1 and epochs=100 for phase 3

For the training of models on weakly datasets: learning rate=1e-05, epochs=4

For all experiments: max sequence length=192, batch size=32, warmup ratio=0.05. Seeds were from 0 to 4 or to 9. We used ['ENToGENEoMK', 'KMoGENEoTNE', 'ENToCHEMoMK', 'KMoCHEMoTNE'] as the markers for the entity and assigned these tokens to the additional special tokens key of the tokenizer.

When language model is "RoBERTa-large-PM-M3-Voc-hf": additional details on the model are: vocab size: 50005, hidden size: 1024.

We also made reproducible source code including default hyperparameter settings, pre-processed data and instructions publicly available on our GitHub repository: <https://github.com/dmis-lab/BioRE-drugprot-kuaz>

3 Training logs

The training log of our system (when the random seed is 0), denoted as *BC7DP-supervised (Transferred)* in the main manuscript, is presented below. The log includes information on the training loss and the learning rate, which is adjusted using the learning rate scheduler.

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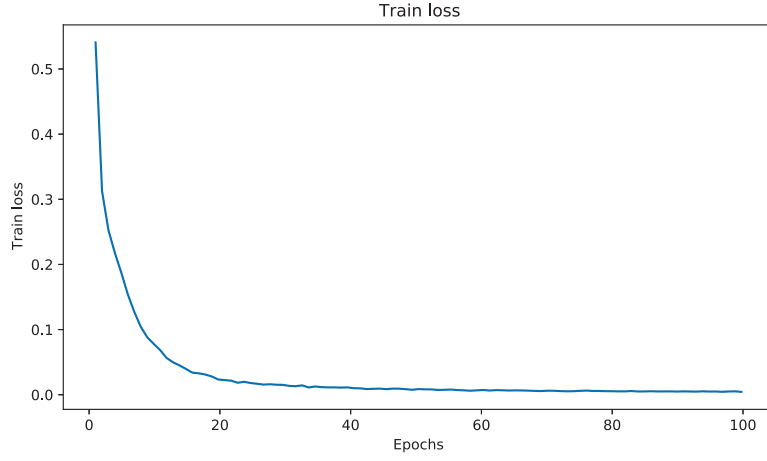


Figure 1: Training loss

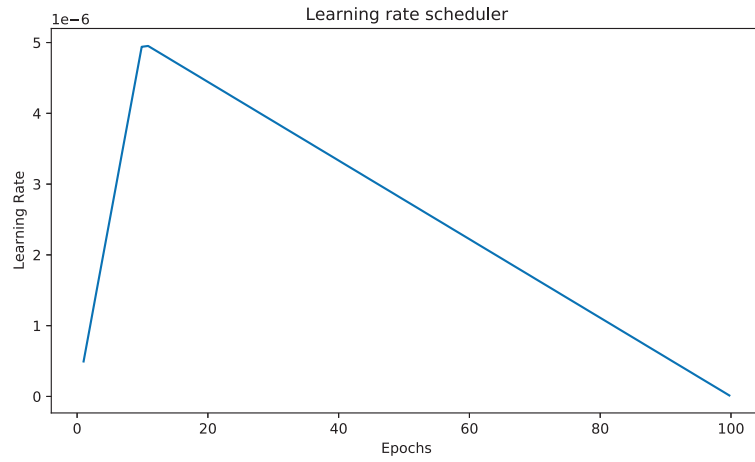


Figure 2: Learning rate

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