

WNUT-2020 Task 1 Overview

Extracting Entities and Relations from Wet Lab Protocols



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Tasks

Sub-Task-1

Mix the following components in an 0.2mL 8-strip tube;

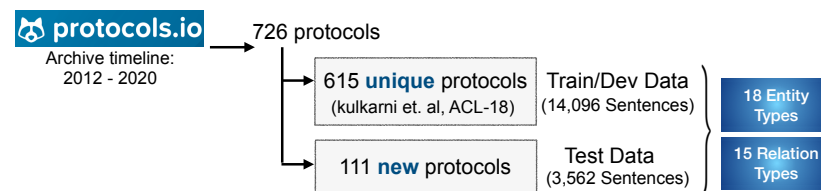
Named Entity Extraction (NER)

Sub-Task-2

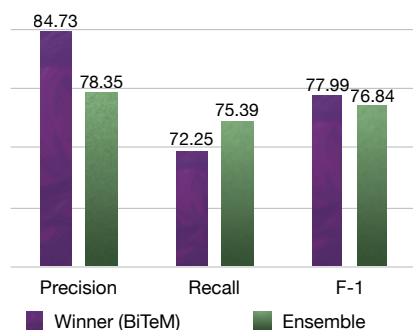
Mix the following components in an 0.2mL 8-strip tube;

Relation Extraction (RE)

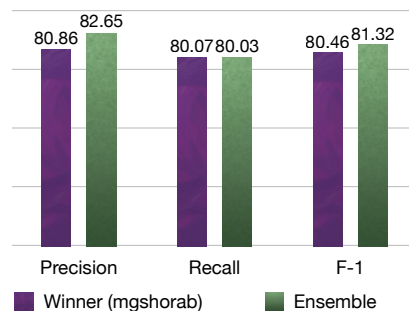
Dataset



NER Performance



RE Performance



Take Away

Domain related **BERT** representations **boost performance** for both the RE and NER task

Ensemble of multiple BERT-models **outperforms single fine tuned BERT** for both the RE and NER task

References

Chaitanya Kulkarni, Wei Xu, Alan Ritter, Raghu Machiraju.
An Annotated Corpus for Machine Reading of Instructions in Wet Lab Protocols, ACL 2018.

Jeniya Tabassum, Sydney Lee, Wei Xu, Alan Ritter.
WNUT-2020 Task 1 Overview: Extracting Entities and Relations from Wet Lab Protocols, WNUT 2020.