

I tried two approaches (no dataset label string matching)

- Regular expression - 0.5/0.56
- BERT NER - 0.37/0.52

Ensemble, searching among known datasets and other approaches with BERT did not improve the results

Regular expressions

- Looking for uppercase letters
- Looking for nearby words with these letters
- Just looking for words beginning with uppercase letters
- Select good candidates
- I memorize all found and search among other documents

BERT NER

- I divide the document into sentences of 200-400 characters
- Select potential candidates
- I take 90% of sentences with tags and 10% without tags
- Use 3 classes - no class, first word and last word of dataset name
- Predict and select good candidates

For train BERT

- Download the data
- edit coleridge2.py
- run python coleridge2.py

Link

- [Data](#)
- [BERT weights](#)
- [kaggle notebook](#)
- [Colab Regular expressions](#)
- [Github](#)