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| --- | --- | --- | --- | --- | --- |
| Title | author | publishing | Technology &dataset | pros | cons |
| Neural Architectures for Named Entity Recognition | Guillaume Lample,Miguel Ballesteros, Sandeep Subramanian ,Kazuya Kawakami Chris Dyer | 2016 | |  | | --- | | CoNLL++,  CoNLL | | automatically categorizing the articles in defined hierarchies and enable smooth content  discovery | Ambiguity and Abbreviations - In identifying named entities is language.Recognizing words which can have multiple meanings or words that can be a part  of different sentences |
| Named Entity Recognition with Bidirectional LSTM-CNNs | Jason P.C. Chiu, Eric Nichols | 2016 | |  | | --- | | Ontonotes v5 | | automatically scan entire articles and reveal which are the major people, organizations,  and places discussed in them. | Same words can be written in long forms.Words which will sometimes require some label for  identification. |
| A Unified MRC Framework for Named Entity Recognition | Xiaoya Li, Jingrong Feng, Yuxian Meng, Qinghong Han, Fei Wu, andJiwei Li | 2020 | |  | | --- | | ACE,MSRA | | used in information extraction to identify and segment the named entities and  classify or categorize them under various predefined classes. | Words which are not used very frequentlythese days, or words that are not heard  by a lot of people |
| TENER: Adapting Transformer Encoder for Named Entity Recognition | Hang Yan, Bocao Deng, Xiaonan Li, Xipeng Qiu | 2019 | Weibo NER,Resume NER,MSRA | helps you easily identify the key elements in a text, like names of people, places,  brands, monetary values, and more | the target words are mainly proper nouns or unregistered words. |
| Few-shot Learning for Named Entity Recognition in  Medical Text | Maximilian Hofer, Andrey Kormilitzin,  Paul Goldberg,  Alejo Nevado-Holgado | 2018 | MIMIC-III, CoNLL-2003 | Extracting the main entities in a text helps sort unstructured data and detect  important information, which is crucial if you have to deal with large datasets. | It is very hard to collect to all datasets. |