I have the experience of using two deep learning methods: LSTM (Long short-term memory) and CNN (convolutional neural network). I tried to use these two methods to classify 860000 records which are descriptions of Natural Hazard triggered chemical released accidents (Natech) from 1990 to 2017 in United States. This work is similar as classify text by using Natural Language Processing Methods (NLP).

Common points of LSTM and CNN

* Both of them are deep learning methods.
* They have multiple hidden layers between the input and output layers.
* They can use to deal with complex work on classify and recognition.

Different points of LSTM and CNN

* LSTM is a kind of Continuous-structure Neural Network and CNN is a typical Layered-structure Neural Net work
* LSTM is more good at the work of text classification and CNN is more good at the image recognition.

However, in application, LSTM and CNN are always applied with a combination.

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