Text Generation

(using http://www.bioinf.jku.at/publications/older/2604.pdf dataset)

이번시간에는 RNN model을 기반으로 generative models을 만들어 보겠습니다. 추가적으로 예측모델(Predictive models)을 만드는데 그럴듯한 스퀀스를 생성합니다.

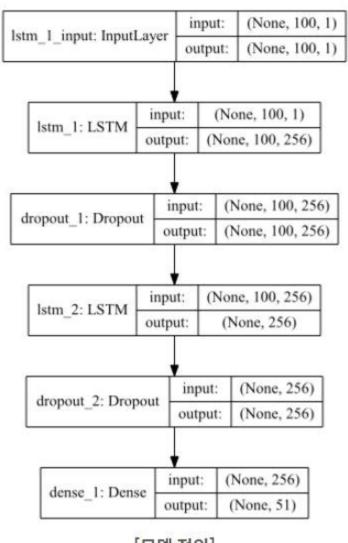
이 예제에서는 원하는 large text를 이용하여 학습을 시켜 스퀀스 data를 생성할 수 있습니다.

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Rbstract
Learning to store information over extended time intervals via recurrent backpropagation
takes a very long time,mostly due to insufcient.decaying error back Dow, We brieDy review
Hochreiter's 1991analysis of this problem,then address it by introducing a novel,efficient,
gradient-based method called #Long Short-Term Memory* (LSM). Truncating the gradient
where this does not do harm.LSTM can learn to bridge minimal time lags in excess of 1000
discrete time steps by enforcing constanterror Dow through #Constant error carrovals* within
special units.Multiplicative gate units learn to open and close access to the constant error
Dow.LSTM is local in space and time its computational complexity per time step and weight
is 0(1). Our experiments with artificial data involve local, distributed, real-valued, and noisy
pattern representations. In comparisons with HTRL,DFTT.Recurrent Cascade—Correlation,
Elman nets, and Neural Sequence Chunking, LSTM leads to many agree successful runs, and
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Necurrent networks can in principle use their feedback connections to store representations of
recent input events in form of activations (#short-term memory), as opposed to #long-term memory*embodied
by slowly changing weights). This is potentially signifect for many applications,
including speech processing, non-Markovian control, and music composition (e.g., Mozer 1992).
The most videly used algorithms for learning what to put in short-term memory, however, take
too much time or do not work well at all, especially when minimal time lags between inputs and
corresponding teacher signals are long. Although theoretically fascinating, existing methods do
not provide clear practical advantages over, say, backprop in feedforward nets with limited time
windows. This paper viil review an analysis of the problem and suggest a remedy.
The prob
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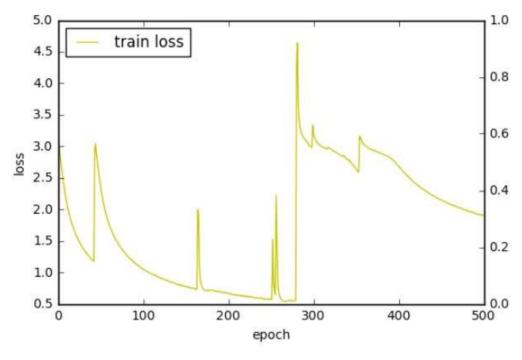
[Data]



[모델 정의]

Strategies to the control to the con

[학습된 모델로 Text Generation]



[Epochs 시각화]