헷갈기는 개념 #2 Attention, Transformer. GPT BERT DecoderOM Attention 明知, Encoder MM의 改列 Key 千州五亳 고려하는 기법 + Multi-Head Attention Layer It Transformer RNNS BEETHE FEE Attention 是唱的 hubsequent Masking Transformer 1/2101 MLM (Masked Language Model)
NSP (Next Gentence Rediction) MLM. NSP. BERT Unsuperused task & RNNOI 48th Bidirectional Model GPT Transformer Decoder & Eyest Pretrained LM dot 1 ucaled dot / general / concat 1. Attention - heg2 Geg with Attention oil 88 location-base ueg2ueg on 24616 राष्ट्रिक वार्यकार मिट प्रेर basic idea: 되게 예약하는 메시엄마다, 전에운강양을 대 한번 살고 한다기는 단지부분이 집중. Attention (Q, K, V) = Attention Value. Query on that Attention key의 #H5是 value on M23. value. (Queny-key) RAI THS Value Value value 张 野田 othertron value. 3 Gottanx Dense 死 相의 地田堡里의 光井公田 Decoder OIM 914H Encoder 01/19 Key Goffmax 95 LGTM LGTM LGTM LGTM L5TM LSTM. 1 embedding em bedding\_ embedding embedding

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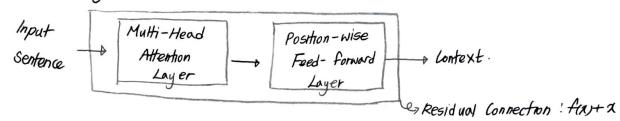
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2 Transformer

미전 RNN의 봉개했던 병할처리를 극복. Wentence to Gentence 구조.





- Multi-Head Attention Layer

Self Attention을 범결적으로 ભાગા 부생하는 Layer, Token 건의 유사도를 크게

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$$\begin{pmatrix} Q \to M \\ a \\ k \to Mul \end{pmatrix} \text{ hole } \to \text{ Mark } \to \text{ hollow} \to \text{ Math } \to \text{ Attention } \stackrel{?}{=} \text{ hel } \stackrel{?}{=} \stackrel{?}{=} \stackrel{?}{=} \text{ Nel } \stackrel{?}{=} \stackrel{?}{=} \text{ Nel } \stackrel{?}{=} \stackrel{?}{=} \stackrel{?}{=} \text{ Nel } \stackrel{?}{=} \stackrel{?}{=} \text{ Nel } \stackrel{?}{=} \stackrel{?}{=} \text{ Nel } \stackrel{?}{=} \stackrel{?$$

- Position-Wise Feed-Forward Layer.

FFN(x) = max (0,7W,+b,) W2+b2

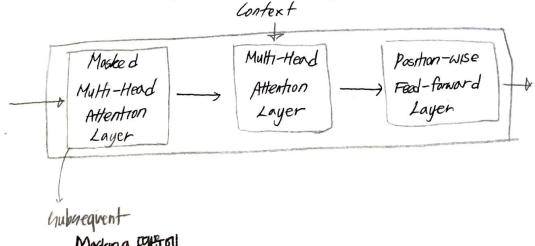
2) Decoder

(Teacher forang with Gubbequent masking)
-Input : context + Gentence :

- Context & Encoder - 1 output.

-bentence.

나 Teacher Forung : 발제 labeled data (Ground Truth)를 RNN œll의 Inputes 설각.
+ Gubsequent masking 2421 (원하는 답은 masking)



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