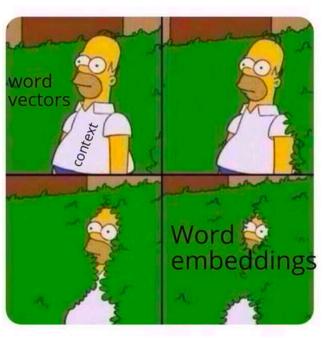
DSML: NLP module. Word embeddings

in a nutshell

BERT: Bidirectional
Encoder
Representation from
Transformers.





When you penalize your Natural Language Generation model for large sentence lengths





Recap:

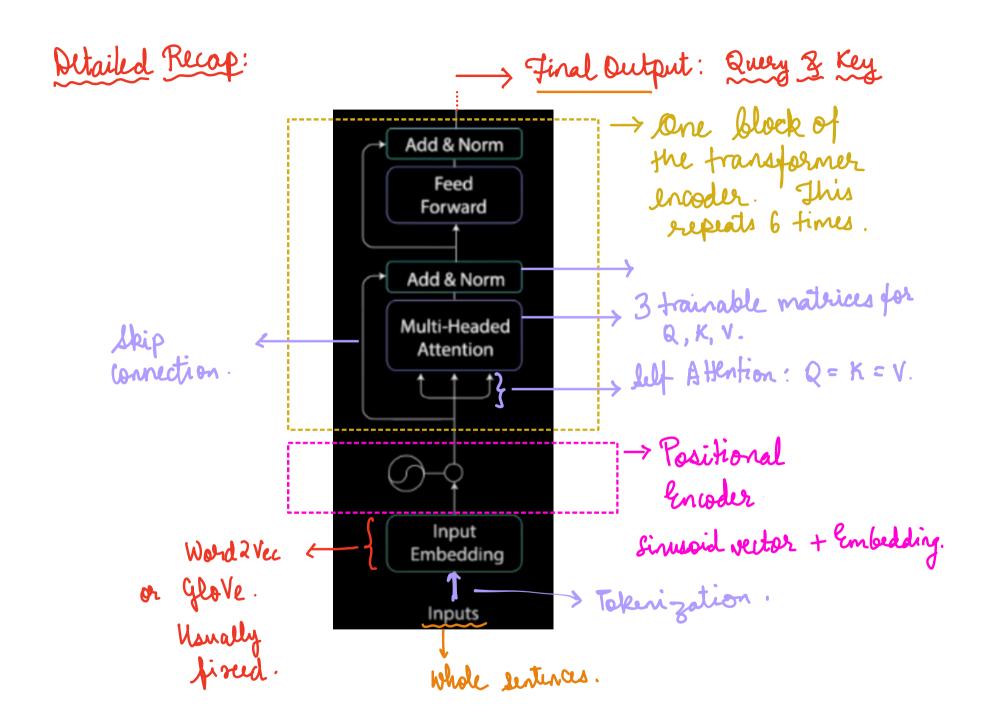
- * Approach taken to jobbe the problem: Transformer Neural Network.

* What we covered last class: Transformer

→ Encoder

Decoder.

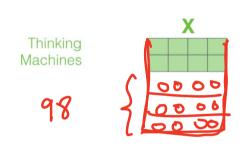
- * Uses Attention only.
- * Requires positional encoding
- * Multiheaded Self-attention.
- * Is trainable.



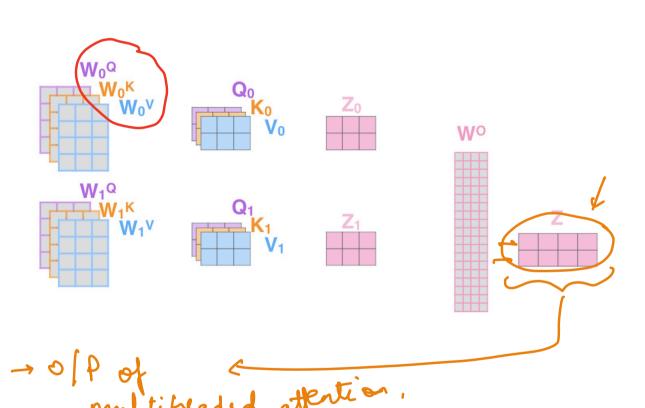
Agenda:

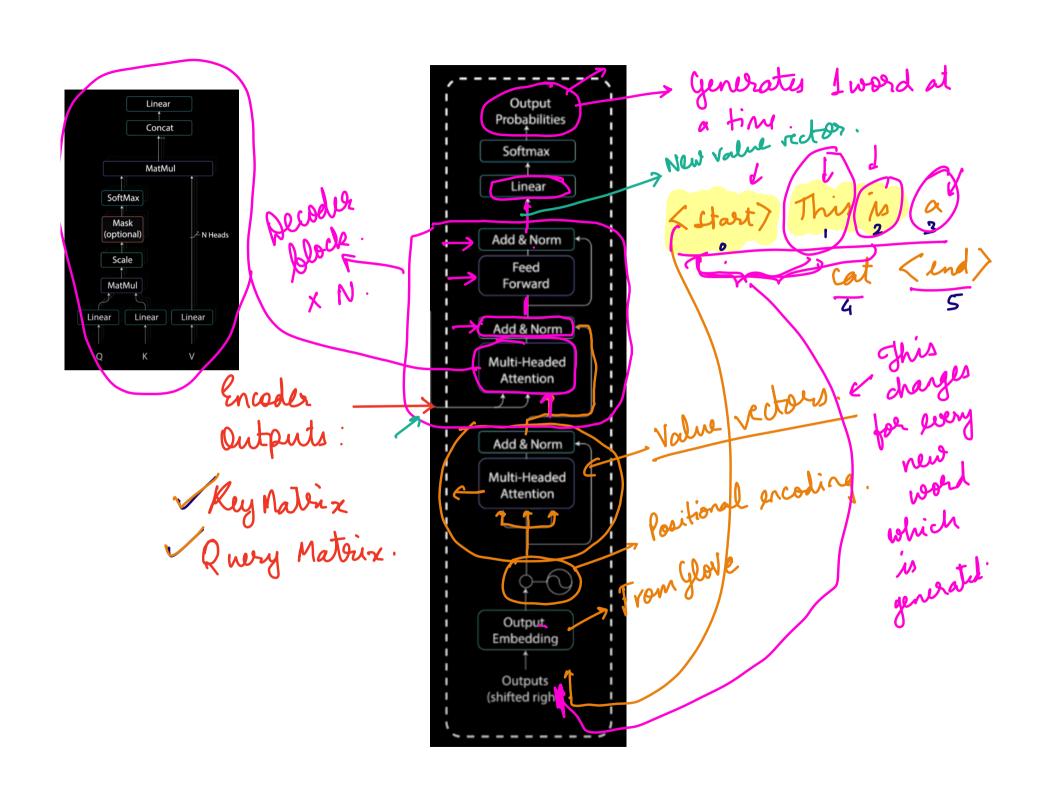
- * Decoder dechitecture.
 - * BERT: An encoder only model.
 - * Transformer Implementation using Transfer Learning.
 - * Using BERT for an NER task.

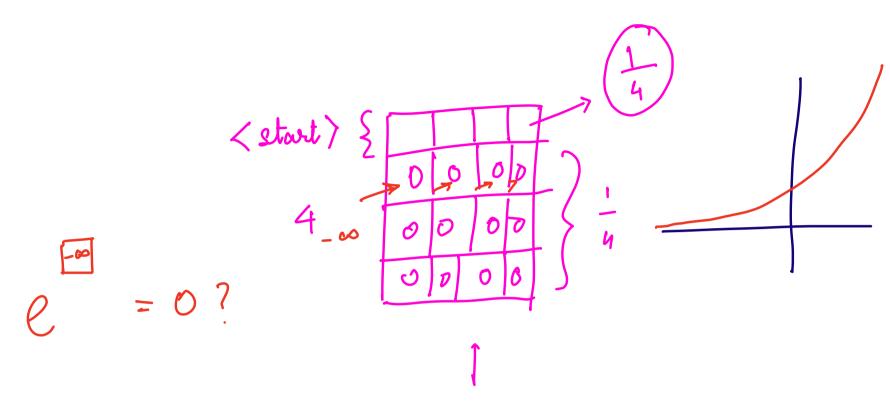




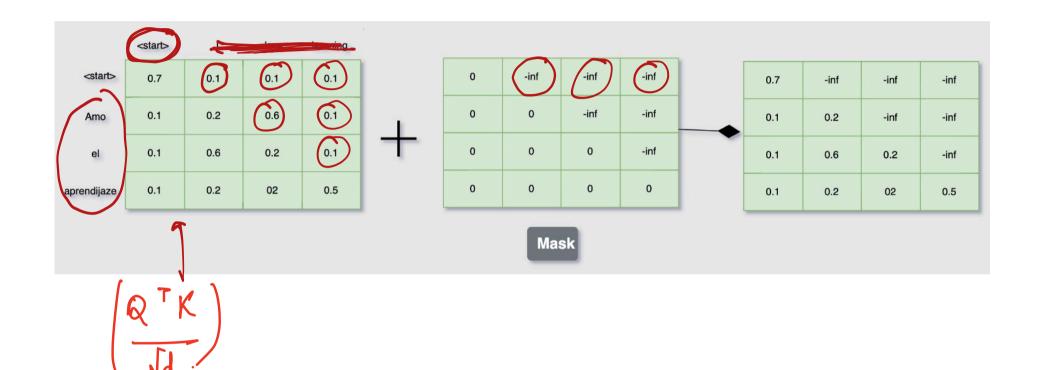
* In all encoders other than #0, we don't need embedding. We start directly with the output of the encoder right below this one





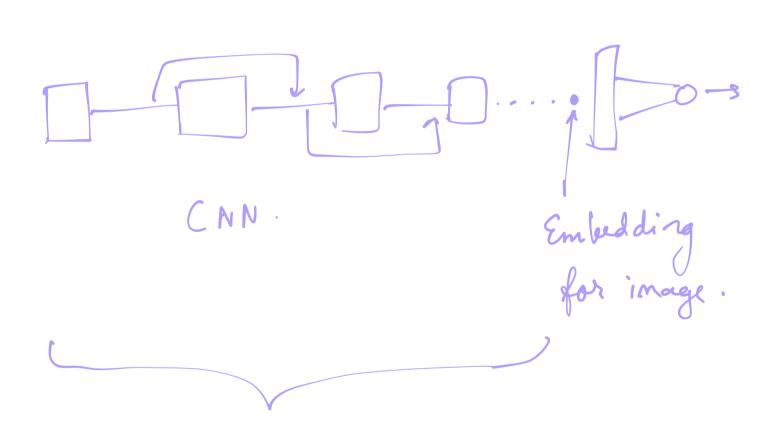


Issue: Softmax will artificially put 4 as the attention weight when we use padded inputs.



Transformers Decoder → Use content → Study a Corpus into to and store answer question contest info. RNA Accodur 1 - Jask 1 Multiple Encodes Decoder 2 - Jack - 2 -> NER can be trained for différent sources Decoder 3 - Jack 3. >> MT. of info.

Recommender Systems -> Embeddings using Mathix factorization.



Strong? The Best NN Architecture (1strong)

Tags.

Closing Remorks: * Heuristic methods: Human intervention for neeful info from tent * Probabilistic methods; CRF (Conditional Rendom Nouve Bayls. * * Neural retwork approaches:

