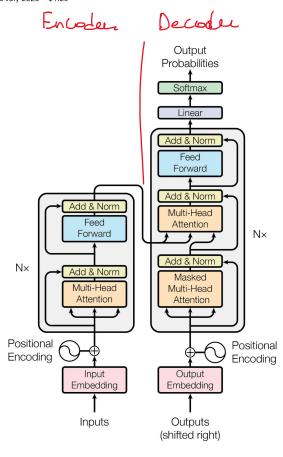
## Transformers

16 July 2025 14:29



Transomers - 2017 Attention
BERT, GPT Generative LL
OpenAL - Chaf GPT

Transformer: Encoder de with Self attention process NLP fasks
why transformers?

DEncoder Decoder

(2) Word Embedding & positional Encoding

(3) Multi head attention

(4) Feed Roward Network

(5) Residual Connections

Porallel

perhasilanson (3

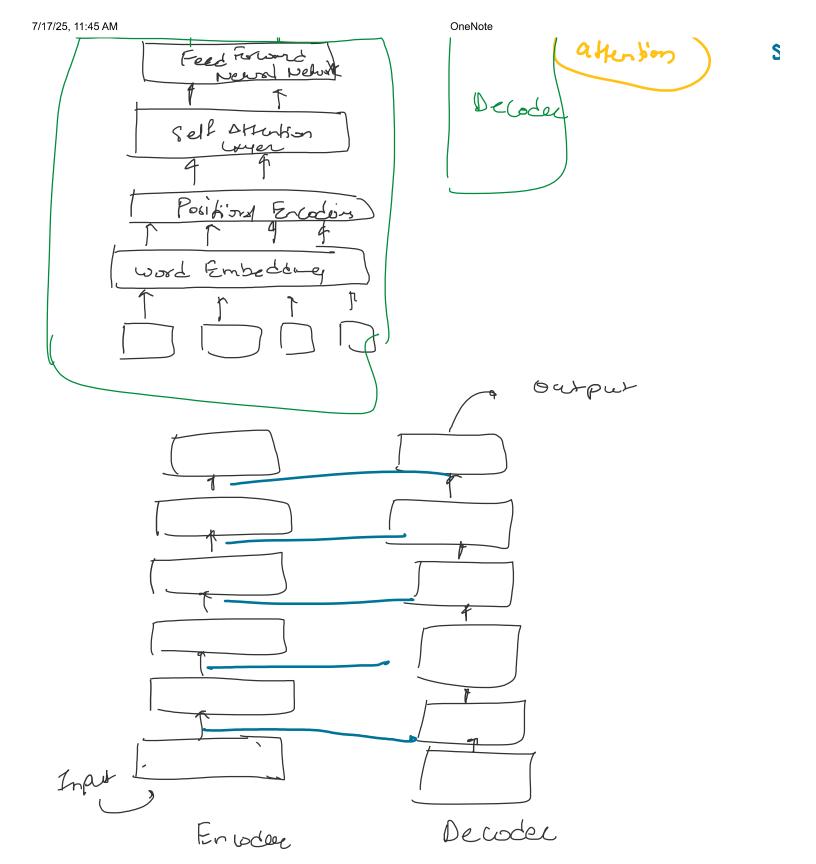
ita. Ik

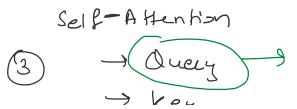
Attention Weights!

I like to cut sice and it

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should be





- rolue

Shub likes Cricket War We - I WE smb = [1010] (Qahub = [1010])

WE lue = [0101] O like = [0101]

WE cricket = [1111] O cricket = [1111] Shub= Score (Qshub" Kshub) = 2/2= (Qshub= Klike) = 0/2= (Oshub: Kariket) = 2/2 like = Score (Qijke \* KShub) = 0/2 (Qlike . Klike) = 2/2 Qlike . (Crim) = 2/2 (ricket = Score ( QCri , K Shub) =

