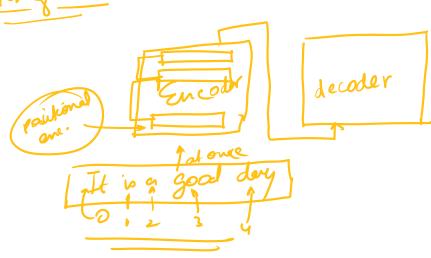
Transpriners Vs LSTM

28 May 2022 23:16 wrong order T, T2 T3 T4 go preve dets) Lets go there! Txt is a sequential dater > Sequence matters [SVM [NB [not fit for sentiment analysis] Bowor -ve (if negative Logodi Regression) tree (of the words) vector commot capture equence into. Input -> It is a good day [Sentiment analysis] LSTM can capture. 2 main problems Time & LSTM Stepl -> Camot utiline 4P4 Tz for long sequences. gradient vanishes $a \longrightarrow |a_m|$ 13 god -> Wm Ty Wm



Transformers.



- 1) Jine yp goes as one it can be parallelized.
- Pesidual comechias
 helps with variety
 gradients
- 3) Attention improves me performance.

LSTM

- Jue to the recurrence it camot be parallelized Lence Slow in training.
- -> Suffers from vanishing gradient problem for long sequences.
- -> No attention implementation

Transprimers

- once hance can be parallelized
 - * position into is mentained by positional encoding layer.
- -7 Has residual connections

 10 overcome vanishing gradient
 problem.
- Attention layer improves the preformance.