

Agneda:

ience modelling Problem

encoder & Decoder

paper published in 2014 discussing this Encoder Decoder architecture.

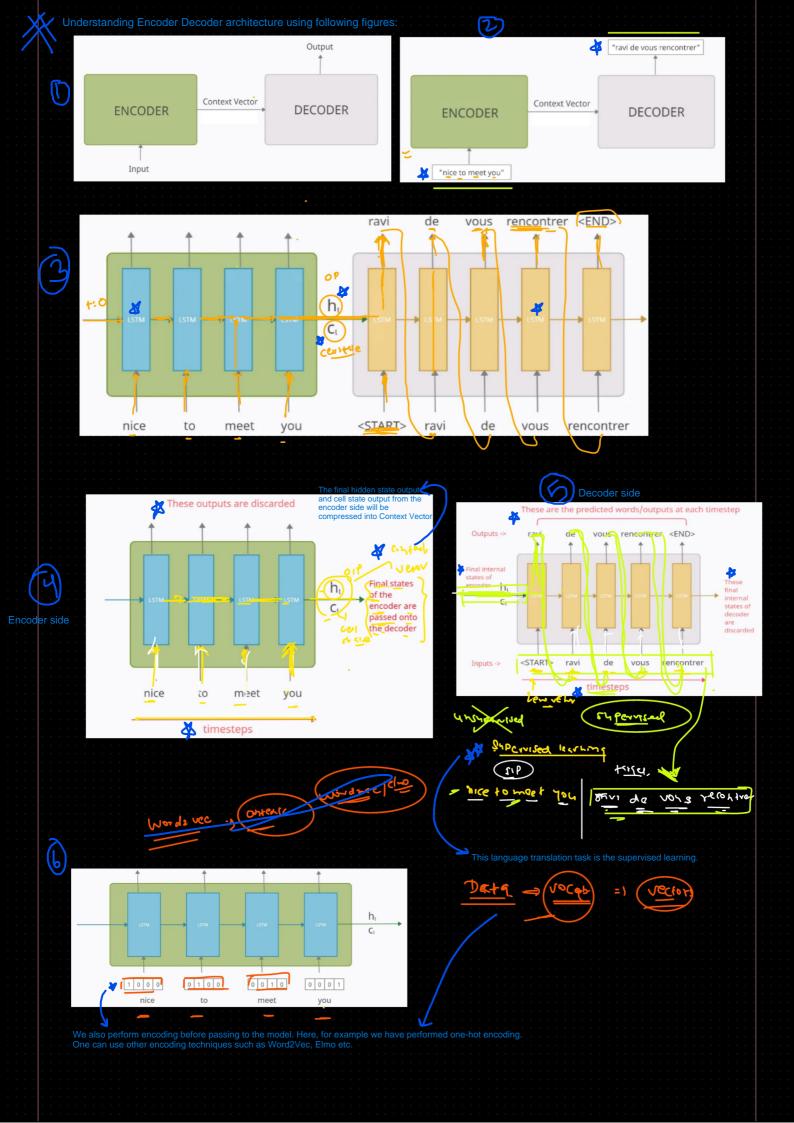
Different evaluation metrices used in NLP:

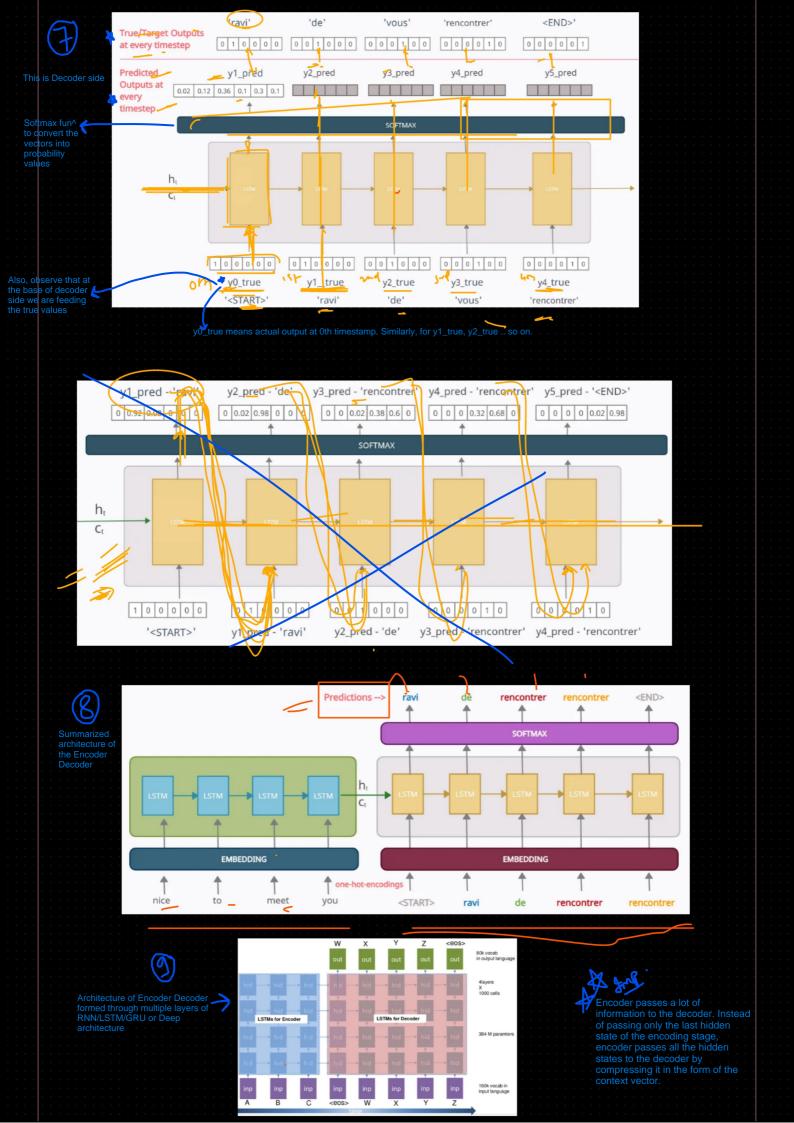
-BLEU (BiLingual Evaluation Understudy) is a metric for evaluating the quality of machine-translated text. It's a number between 0 and 1 and measures how similar the machine-translated text(Predicted) is to a set of high-quality reference translations(Actual)

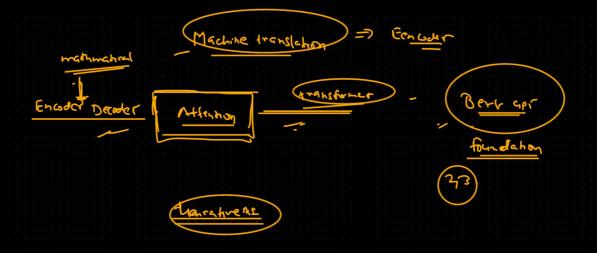
- Perplexity: In Natural Language Processing (NLP), perplexity is a way to measure the quality of a language model independent of any application

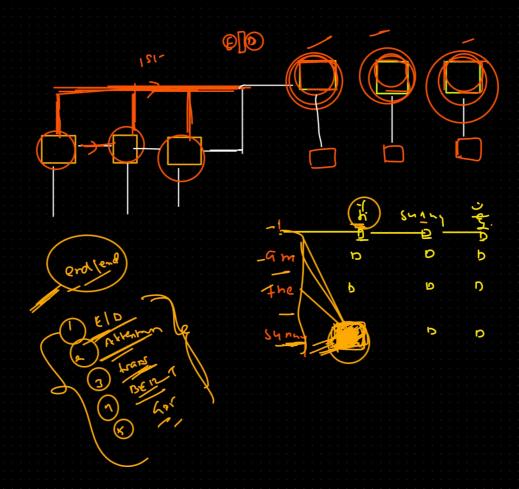
- GLUE score: GLUE, also known as General Language Understanding Evaluation, is an evaluation benchmark designed to measure the performance of language understanding models in a range of natural language processing (NLP) tasks. It provides a standardized set of diverse NLP tasks, allowing researchers and practitioners to evaluate and compare the effectiveness of different language models on these tasks.

In last lecture we already discussed drawback of many to many seq to seq mapping while using RNN/LSTM/GRU scenario in case of many to many seq mapping where i/p and o/p dimensions are different if we using RNN/LSTM/GRU then they are prone to fixed dimensionality as a result we may generate output which is having missing value, wrong sequence, grammatical mistakes etc. Encoder Decoder address this stated issue.









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Jalammar is renowned researcher in the space of NLP. Read his blogs where he has decoded different NLP research papers and concepts in a very beautiful manner.