





* Improvements Embedding - We won't use one-hot encoding, instead use embedding layer which is a Low deminional dense vector layer, using pretrained (books word 2 yez (Glove) Use Deep LSTMs: - Instead of using Single

LSTM layers use deep LSTM layers, stacked

upon each other := It helps in:
i) long term dependency (as it has many context vedor

unlike using Single LSTM layer ii) Layered represent (It helps is understooding hierarchical understanding of paragraphs i.c from words ->
Sentences - paragraphs iii) It parameters are more (when used deepLSTM), it ensures good accuracy. 3) Reversing the input: In enoder, we can provide performence but it works in very few cases only.) Input > Think about it

* Encoder Purpose: - Understand the input sequence and compress its meaning 1900: - 1) Takes upit (e.g. an English sentence)
2) brocesses it word by word (using RNN/LSTM) =
3) converts the entire upit sequence into a Content vector (a-fried age representation) Purpose - Generate the output sequence based on the encoder's context 1900: - 1) Talces the contest vector from the encoder as input 2) predicts the output sequence one token at a time (e.g. in french)
3) Such prediction is based on the context and previously generated to kens Input: - " on happy" Epider: - Understands and epides this into a content vector Decoder: - Uses this vector to generate output like "Te suis heureus!" (French translation)