Topin

1 LSTM VS GRU

2 Encoders & Decoders - Seg 2 Seg modelling English -> Spanish -> Marchenic Translation

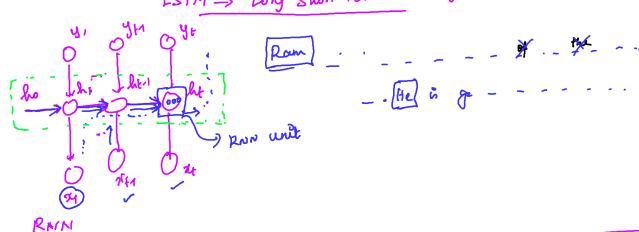
- Tent -> 501 Queries - Tent -> Programming language

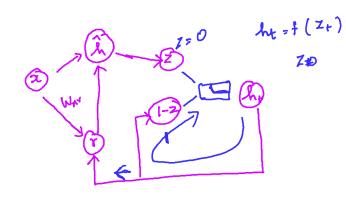
3 Attention with Encoden & Decodery

Machine Translation problem (F)

6 Tent desenfication - LSTM - Glove Embedding

LSTM -> Long Short Term Memory



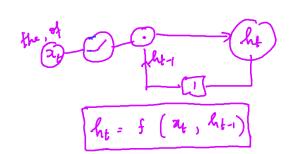


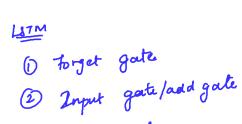
 $= f(\hat{k}) \xrightarrow{z} f(x, r,)$ $= \frac{1-z}{r} f(k-1)$

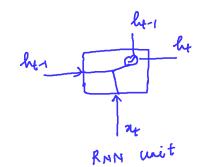
$$Y_{t} = \sigma \left(\chi_{t} W_{2} r + h_{t-1} \right)$$

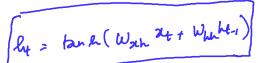
$$\hat{h} = f \left(Y_{t}, \lambda_{t-1} \right)$$

$$Z_{t} = f \left(\hat{h}_{t} \right)$$

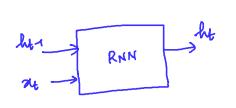


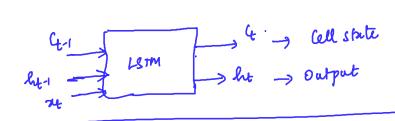












forget =
$$f_t = 6 (w_i h_{t-1} + w_t n_t)$$

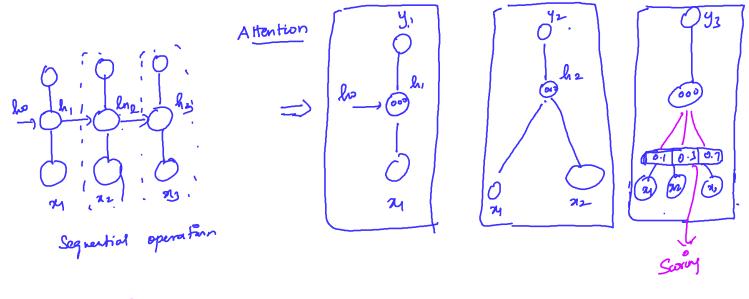
gate

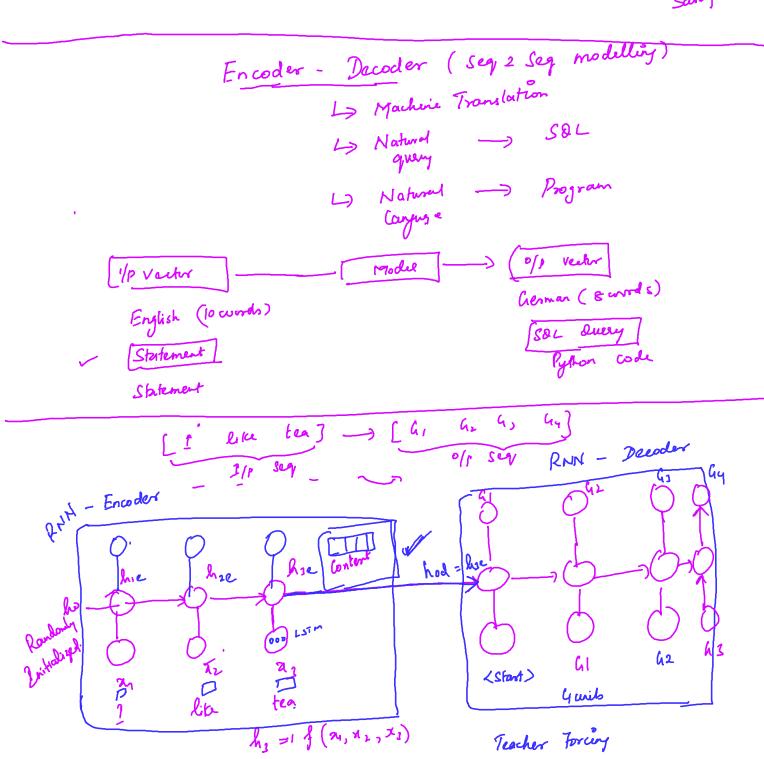
 $(k_t = k_{t-1} + k_t) = k_t$

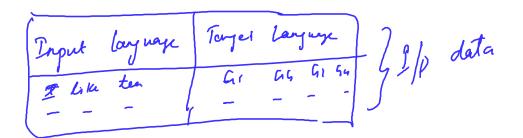
$$\tilde{J}_{+} = \tilde{J}_{+} \otimes i_{+}$$
 information that needs to be updated

New information

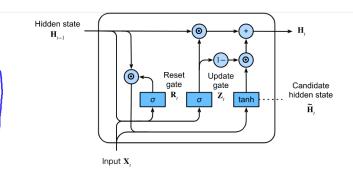
$$\frac{\left(0_{t} = 6 \left(W_{b} h_{t1} + W_{7} a_{b}\right)\right) \text{ output gente}}{\left(h_{t} = 0_{t} \otimes \text{ bun h}\left(C_{t}\right)\right)}$$







hated Recurrent Units



FC layer with