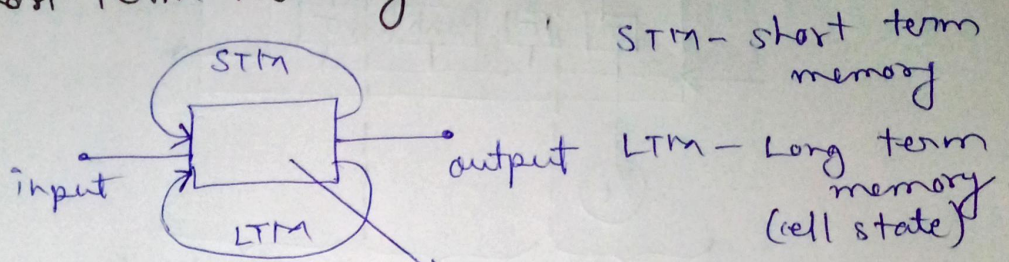


19 - Oct - 2024

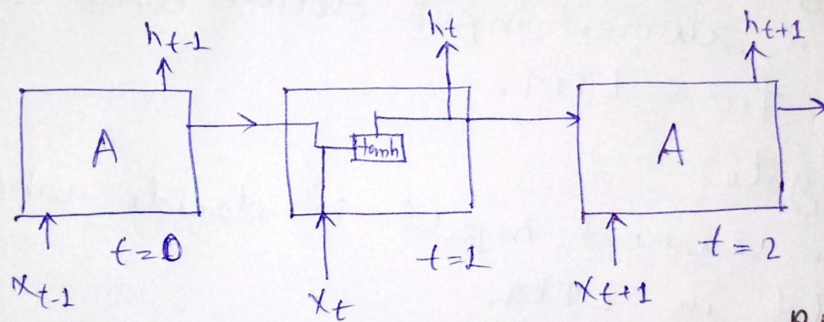
# LSTM (LONG SHORT TERM MEMORY)

Long short term memory:

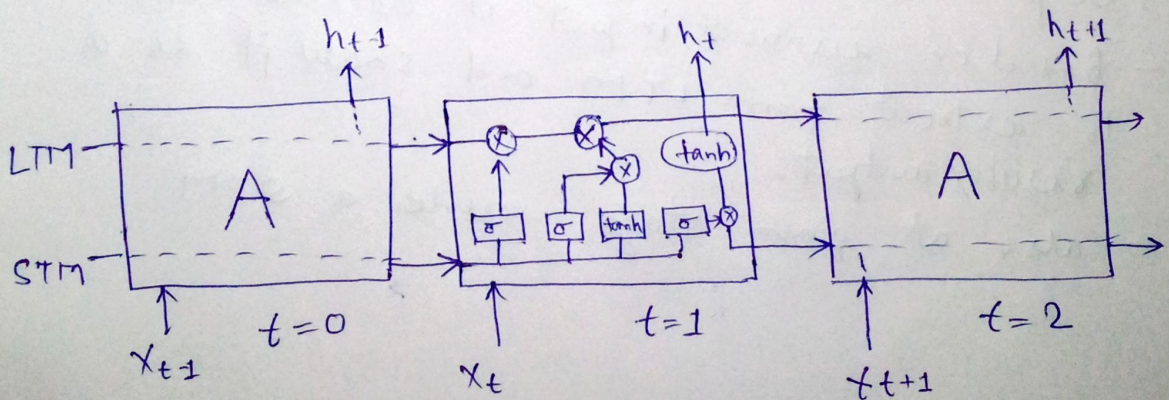


Difficult/complex architecture

— make a communication between the STM and LTM



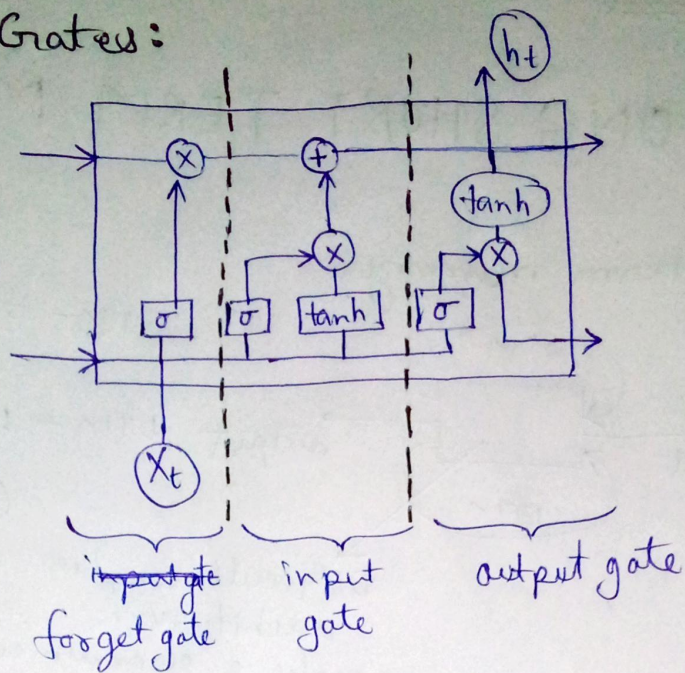
architecture of RNN



architecture of LSTM



## LSTM Gates:



(i) forget gate:

Based on current input decide what is remove from LTM.

(ii) Input gate:

Based on current input it decide what will add in LTM.

(iii) Output gate:

- Based on current input it decide what is extract from LTM and state it as a result/output.

- also at given stage create a STM