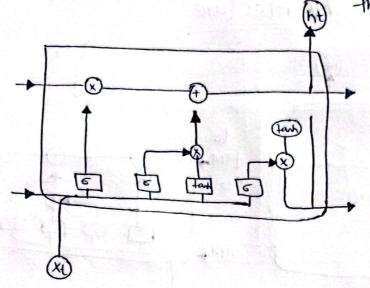
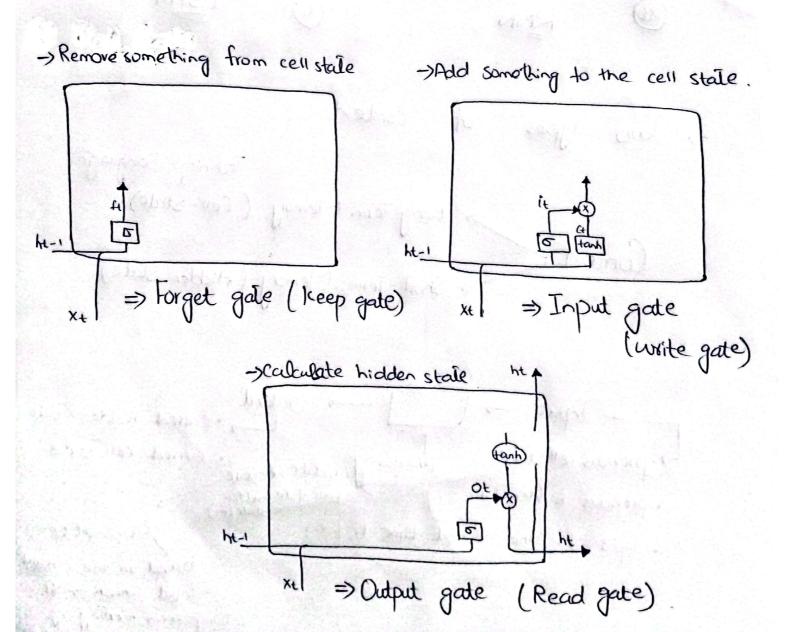


The Galess-

Based on three gates, to pretect and control the cell states.





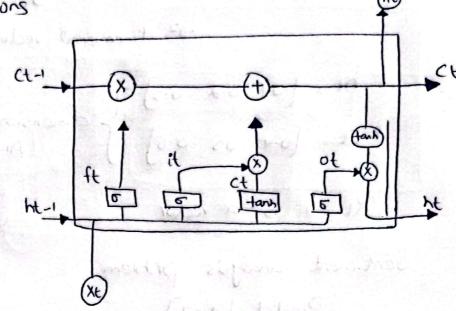
C4 h -> These are vectors [0.1 0.3 0.9]. 43 dimensional vector. ht = [0.1 0.2 0.3] } dimensions are equal (Always). $X_t \rightarrow is$ a vector Sentiment analysis problem Predict [0,1]. Cat mat red 0 cat rat o =) Lstm only number process mat mat cat 1 =) 1-low to calculate text into numbers? · Text vectorization -) Use one hot encoding -) Bag of word -> TF-IDF 0 0 1 t=1 t=2 t=3 [100] (010) (001)

It is just one word, converted into a vector

Scanned with CamScanner

- =) These are vectors
 - Dimensions are same

- => Pointwise Operations
 - → (X)
 - → (+)
 - -> (tanh)



Ct-1 =
$$\begin{bmatrix} 4 & 5 & 6 \end{bmatrix}$$

ft = $\begin{bmatrix} 1 & 2 & 3 \end{bmatrix}$

Ct-1 =
$$\begin{bmatrix} 4 & 5 & 6 \end{bmatrix}$$

Ct = $\begin{bmatrix} 1 & 2 & 3 \end{bmatrix}$

=) Neural Network Layers

