Am. to the Dues. No.2

GRU vs peophole-LSTM:

it allows peeping into the memory.

In GRU, there no cell state, and less complex than LSTM.

LSTM forgate gate: LSTM fonget gate work slowly.

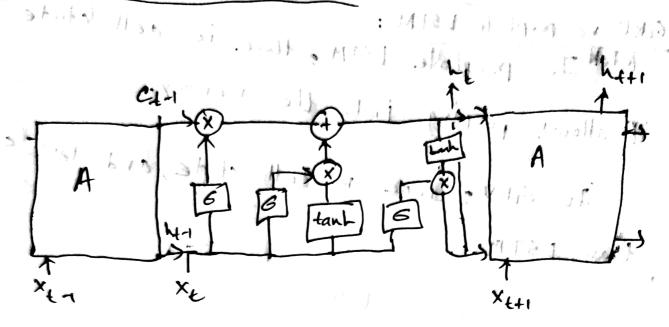
So, it fonget the initial menon information when the
new Tata is too large. It decides which data need
to fonget in cell state.

It = 6 (W, [ht-1, xt] + b, f)

of post information needed to fonget and it work independently.

nt=6 ( We xt + Uz ht-1)

## Matrix workflow of LSTM:



The system has I matrix, computation

Zj - Controls fongate gate

Z; - controls input gates

- Upbeiling information

20 - controls output gate

old whot give touch galo 2 = tank (W) fet )

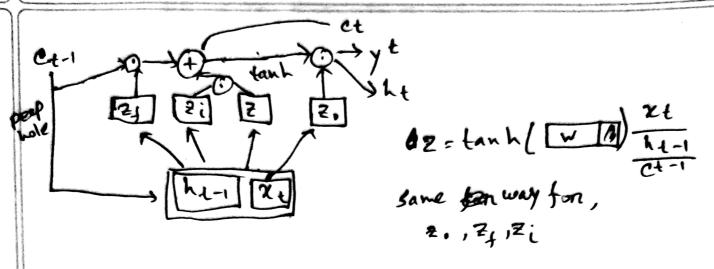
Zi = 6 [Wi Then)

Altaboration Inous 27 = 8 (W) 12 (V) 5. ) 1

= 4 (No) xe

Sub:





$$C_{t} = \frac{2}{3} \odot c^{t-1} + \frac{2}{3} \odot \frac{2}{3}$$

$$h_{t} = \frac{2}{3} \odot \tanh(C_{t})$$

$$y^{t} = 6(N h_{t})$$