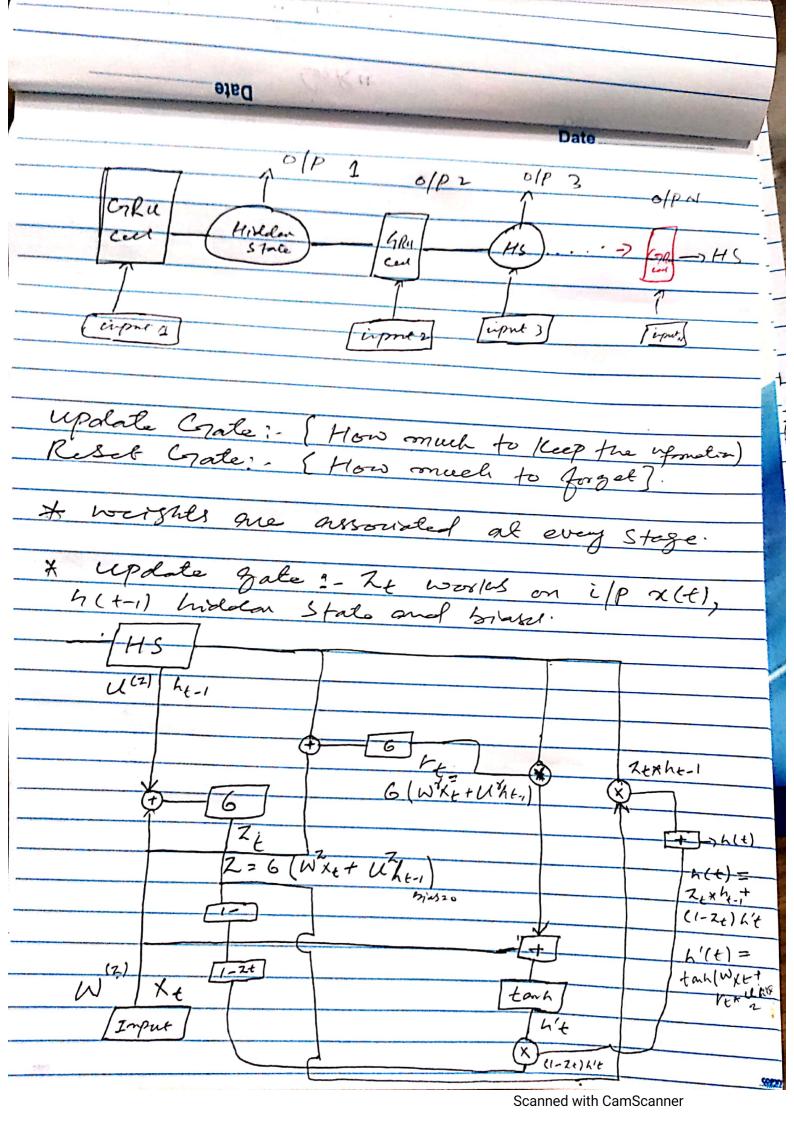
Crotes Relu units, useful for Solving the varishing gradient protein. * Architecture Similar to LSTM, while there are Some oliffrenes.

1- LSTM- 3 gates (forgot, input and output gales)
2- GRU- 2 gates (update, reed) * CoRu Bless Comprex, well Suited for Somell datasets Coales Allow you to Control the flow of information. How much information to be Kept and how much information to Jorget. This beloss in tracking the Long term dependency problem. Hiddenstoy 4 (t-1) Imput Copa Architechuse.



 $Z_{t=0} = 6 \left(W_{X_{t}} + U_{h_{t-1}}^{2} \right)$ $I_{t=0} = 6 \left(W_{h_{t}} + U_{h_{t-1}}^{2} \right)$ $I_{t=0} = 6 \left(W_{h_{t}} + U_{h_{t-1}}^{2} \right)$ $I_{t=0} = t_{n} + \left(W_{h_{t-1}} + V_{h_{t-1}} \right)$ $I_{t=0} = t_{n} + \left(W_{h_{t-1}} + V_{h_{t-1}} \right)$ $I_{t=0} = \left(I - Z_{t} \right) + C_{t} + C_{t} + C_{t} + C_{t-1}$ $I_{t=0} = \left(I - Z_{t} \right) + C_{t} + C_{t} + C_{t-1}$ $I_{t=0} = \left(I - Z_{t} \right) + C_{t} + C_{t} + C_{t-1}$ $I_{t=0} = \left(I - Z_{t} \right) + C_{t} + C_{t} + C_{t-1}$ $I_{t=0} = \left(I - Z_{t} \right) + C_{t} + C_{t} + C_{t-1}$ $I_{t=0} = \left(I - Z_{t} \right) + C_{t} + C_{t} + C_{t-1}$ $I_{t=0} = \left(I - Z_{t} \right) + C_{t} + C_{t} + C_{t} + C_{t-1}$ $I_{t=0} = \left(I - Z_{t} \right) + C_{t} + C_{t}$

A worked example

text = Math Math Math Math,

proprocessing Steps:-

S-1 Convert text into numeric Values and Joran a distrionary.

Dirling: \\ 'h':0, 'a':1, 't':2, 'm':3\}

Our encoded 0/P

Mata Mata = \[3, 1, 2, 0, 3, 1, 2, 0 \].

S-2 Create bootches of data hel's Put the Following Sethings Bootch SiZe (B) = 2 Sedume SiZe (S) = 3 Volabulary (V) = 4 output (0) = 4

