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update gate: Update gate is responsible for determining and maintaing the amount of part information that would be passed to the future.

Lene, X_{2} - input vectors

Lene, X_{2} - imput vectors

Me, V_{2} - weight matrices

Let - previous hidden state.

nesel gale: Reset gate is wed for determining
the amount of part information that is needed

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bestimmer the go (Waxed Vather) in the for tracens

ny - mediagate and to tracens spect a strong

xy - input

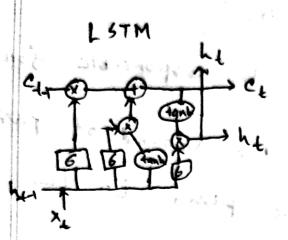
Wa, Vn - weight natrices

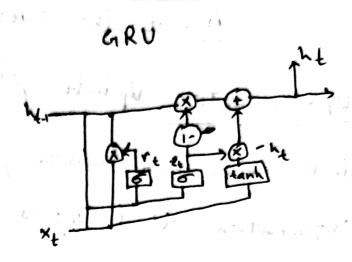
het - previous hidden state.

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Here, GRU and LSTM both have xx and hx-1 inputs.

And both do the calculation and pass valued along.

But the main difference in the workflow of

LSTM and GRU is that GRU's don't need the

cell layer to pass values along. In GRU

it has two gates but Ishm has three gates

with loss memory unit, GRU do the calculations

within each iteration insure that the hx

values beign passed along either netain a high

amount of old information on are jump-started

with a high amount of new information.

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The reasons why GRU is faster than in compare to RNN are -

- · In GRV there are two gates (update gates, neset gate) but if LSTM have three gates (fonget, input, output), that GRU has less memory cell and can work fast, as fonget memory cell and control the procedure and gate in LSTM control the procedure and make the system slow.
- GRV has less gates, so the system is less complex with respect to LSTM.
- · GRU don't have cell state unlike LSTM. So It makes the work easier and faster.
- GRV have almost same anchitecture as Vanila RNN though variila RNN is simple and use one function which take much time than GRV.