

Gated Recurrent Unit (GRU) *CORRECTION*

Correction in "Gated Recurrent Unit (GRU)" (14:04):

The last line should use an element-wise multiplication "*" instead of a plus sign "+".

$$c^{<t>} = \Gamma_u * \tilde{c}^{<t>} + (1 - \Gamma_u) * c^{<t-1>}$$

See the correction in red.

Full GRU

$$\tilde{h} \quad \tilde{c}^{<t>} = \tanh(W_c[\tilde{c}^{<t-1>}, x^{<t>}] + b_c)$$

$$u \quad \Gamma_u = \sigma(W_u[c^{<t-1>}, x^{<t>}] + b_u)$$

$$r \quad \Gamma_r = \sigma(W_r[c^{<t-1>}, x^{<t>}] + b_r)$$

$$h \quad c^{<t>} = \Gamma_u * \tilde{c}^{<t>} + (1 - \Gamma_u) \overset{*}{+} c^{<t-1>}$$

LSTM

The cat, which ate already, was full.

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Mark as completed