LSTM

Long Short-Term Memory

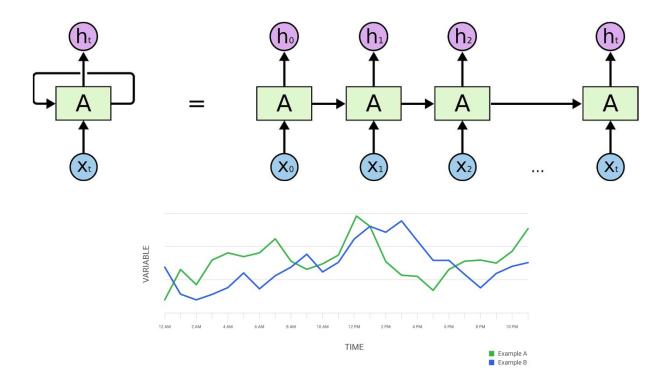
640315 sittikorn chaloemkittichai



The LSTM fix trouble RNN

One type of ANN (Artificial Neural Network)

Time series data



Example: Predict color of the A equip shirt each day



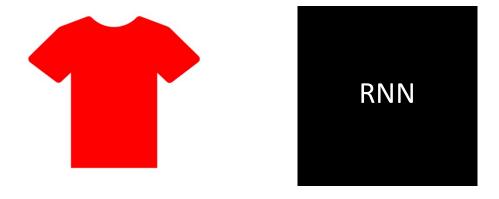




Example: Predict color of the A equip shirt each day



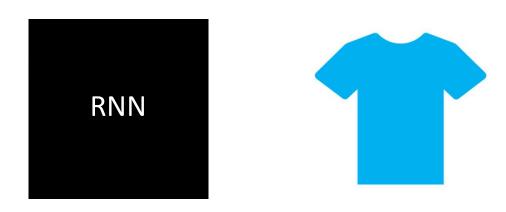
Example: Predict color of the A equip shirt each day



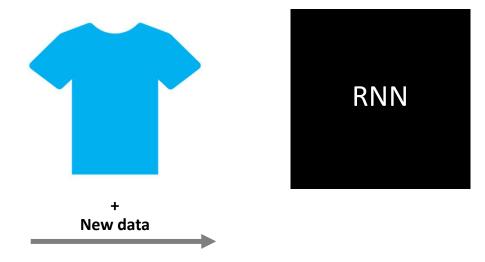
Example: Predict color of the A equip shirt each day



Example: Predict color of the A equip shirt each day



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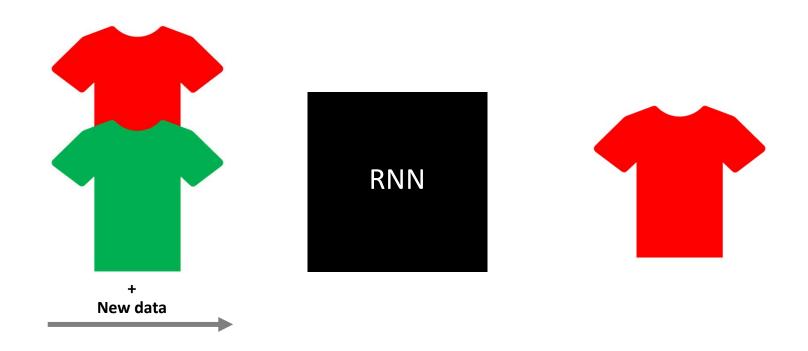
Example: Predict color of the A equip shirt each day

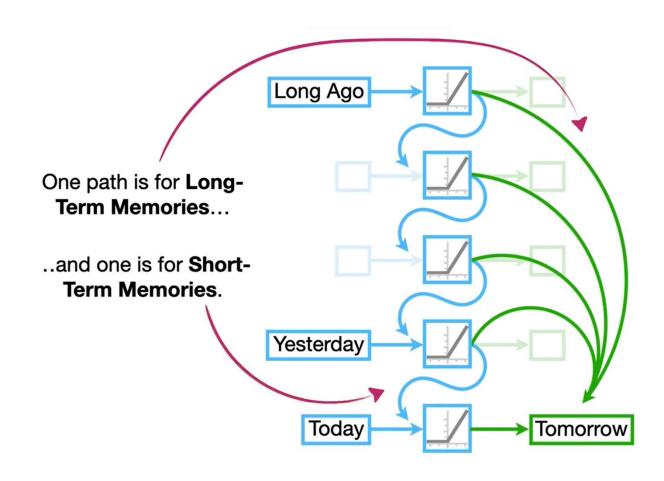


Example: Predict color of the A equip shirt each day

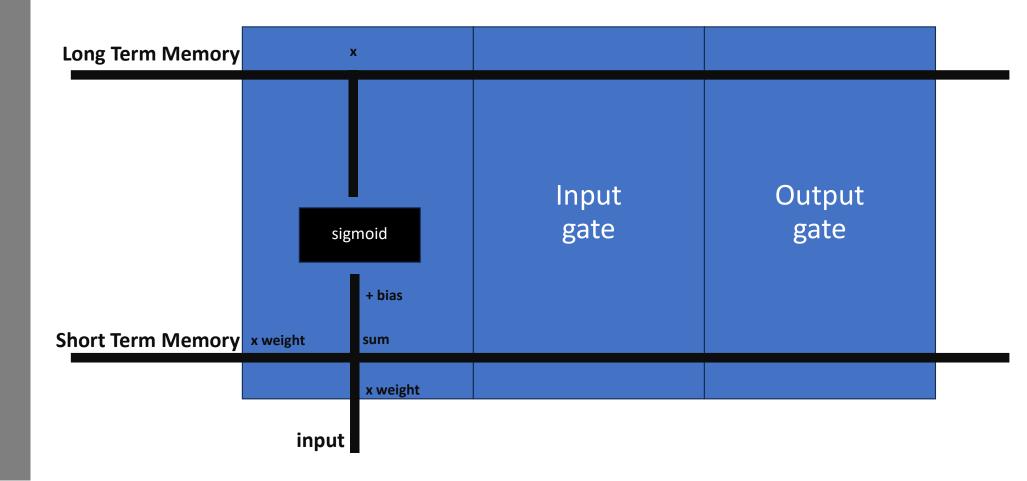


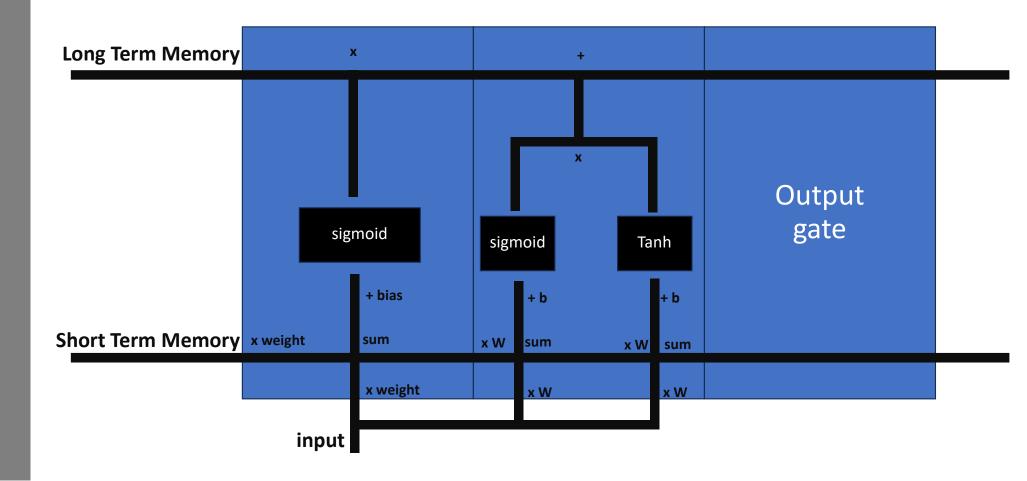
!Problem : Can not remember 2 ago

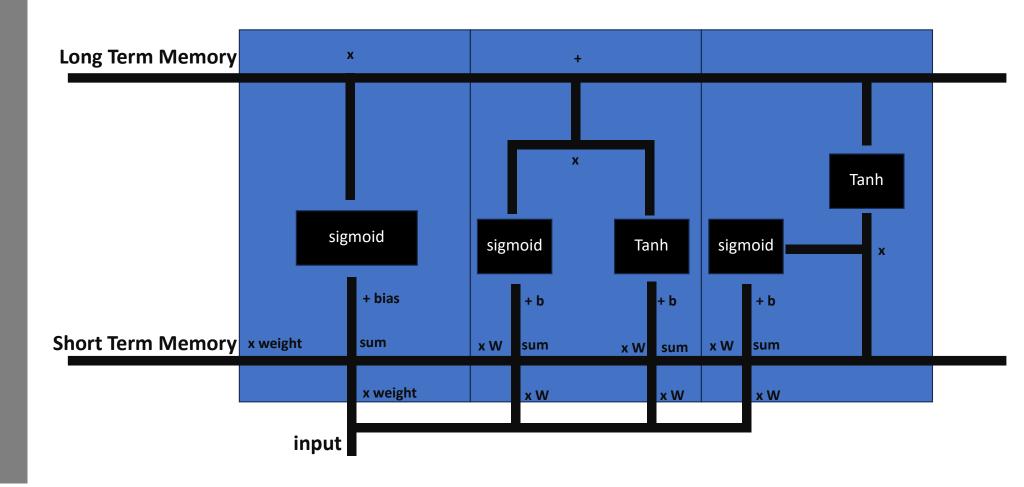


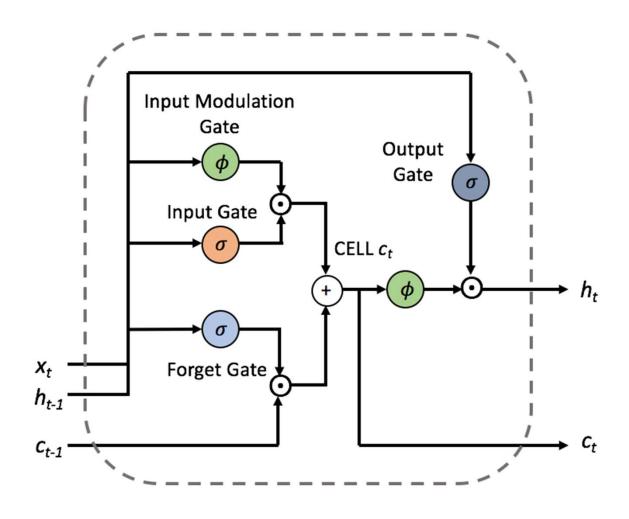


Long Term Memory				
	Forget gate	Input gate	Output gate	
Short Term Memory				









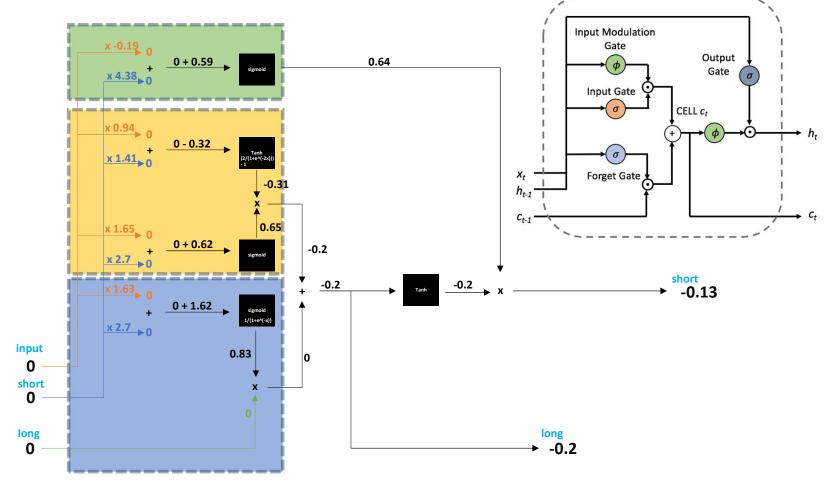
Predict stock goods

Day	Values
1	0
2	0.5
3	0.25
4	1
5	0

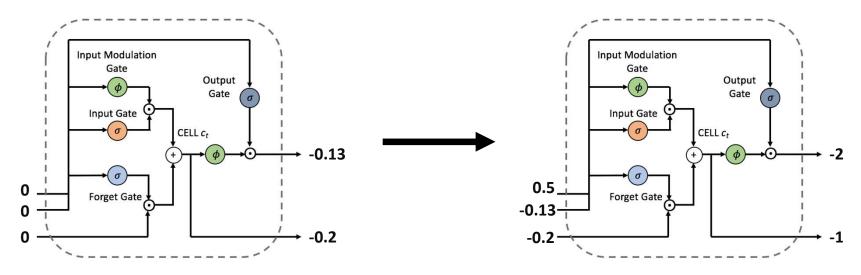
Predict stock goods

Day	Values
1	0
2	0.5
3	0.25
4	1
5	?

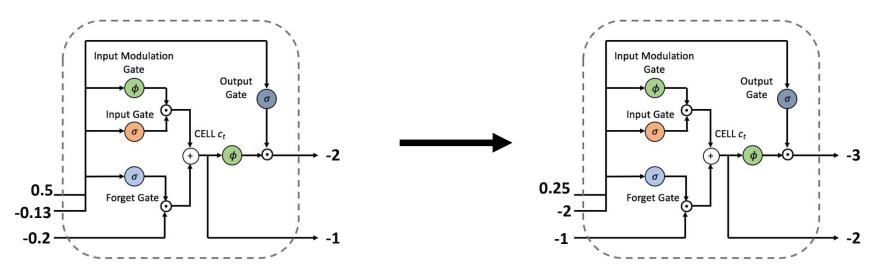
Day	Value
	S
1	0
2	0.5
3	0.25
4	1
5	?



Day	Value
	S
1	0
2	0.5
3	0.25
4	1
5	?



Day	Value
	S
1	0
2	0.5
3	0.25
4	1
5	?



Day	Value
	S
1	0
2	0.5
3	0.25
4	1
5	?

