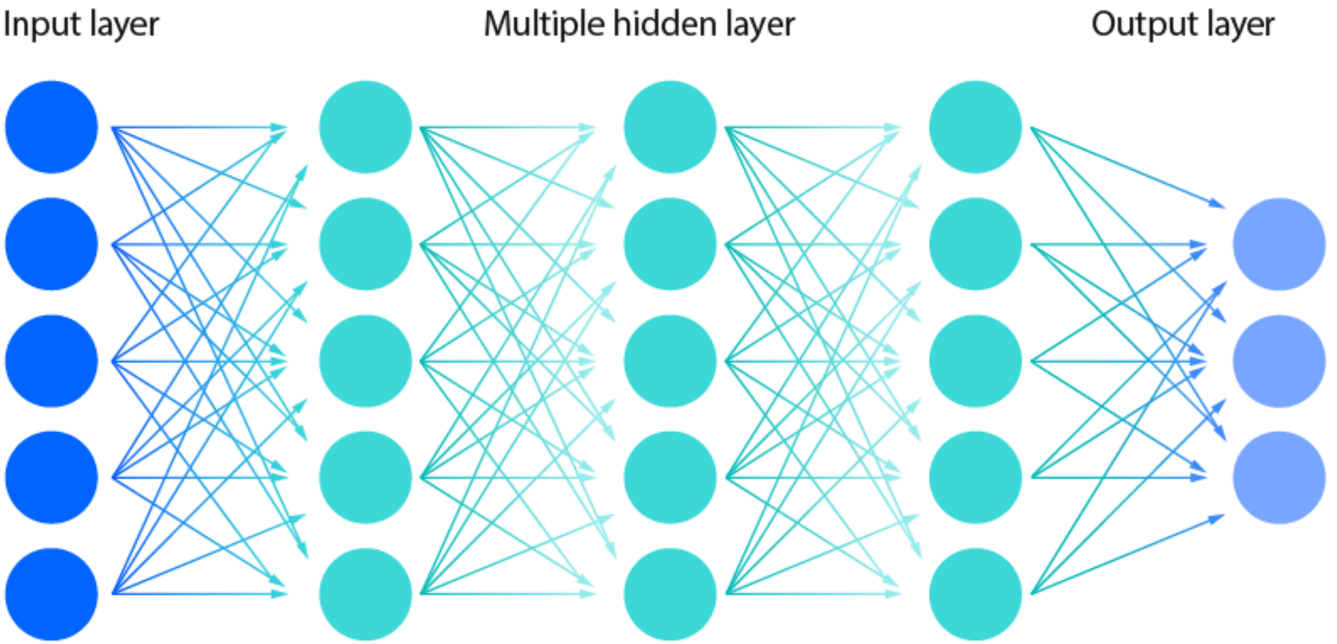
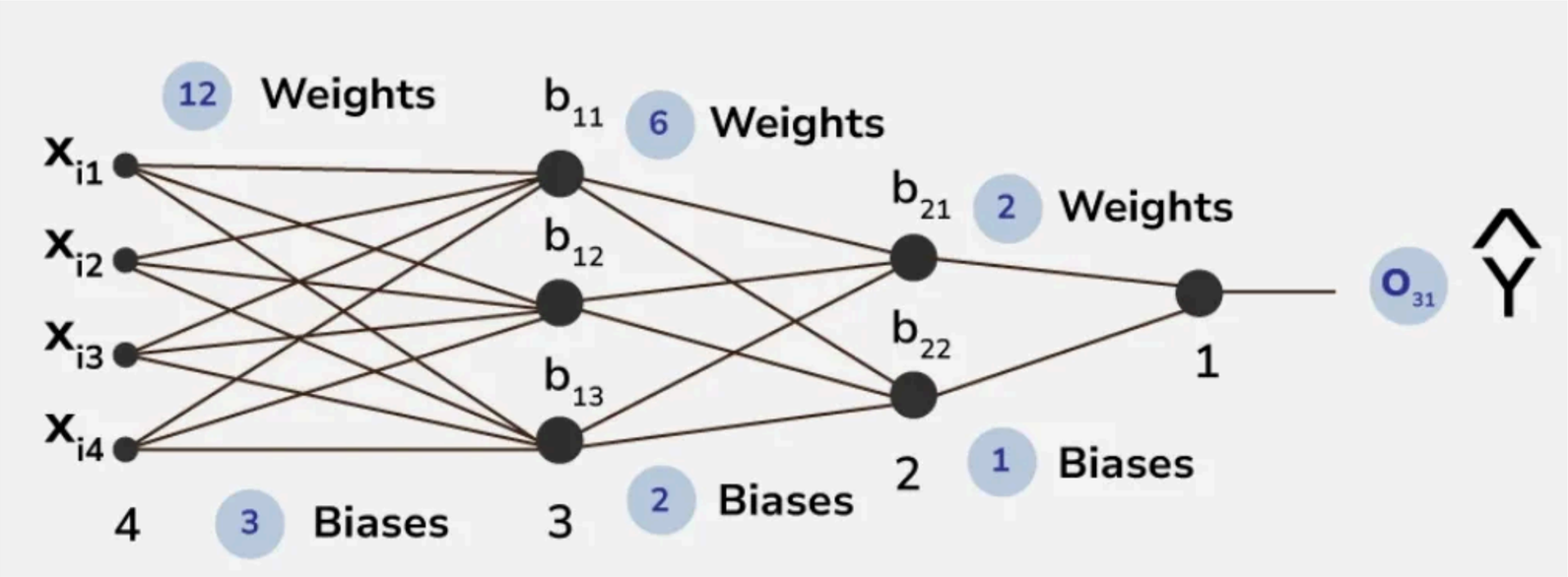
Neural Networks

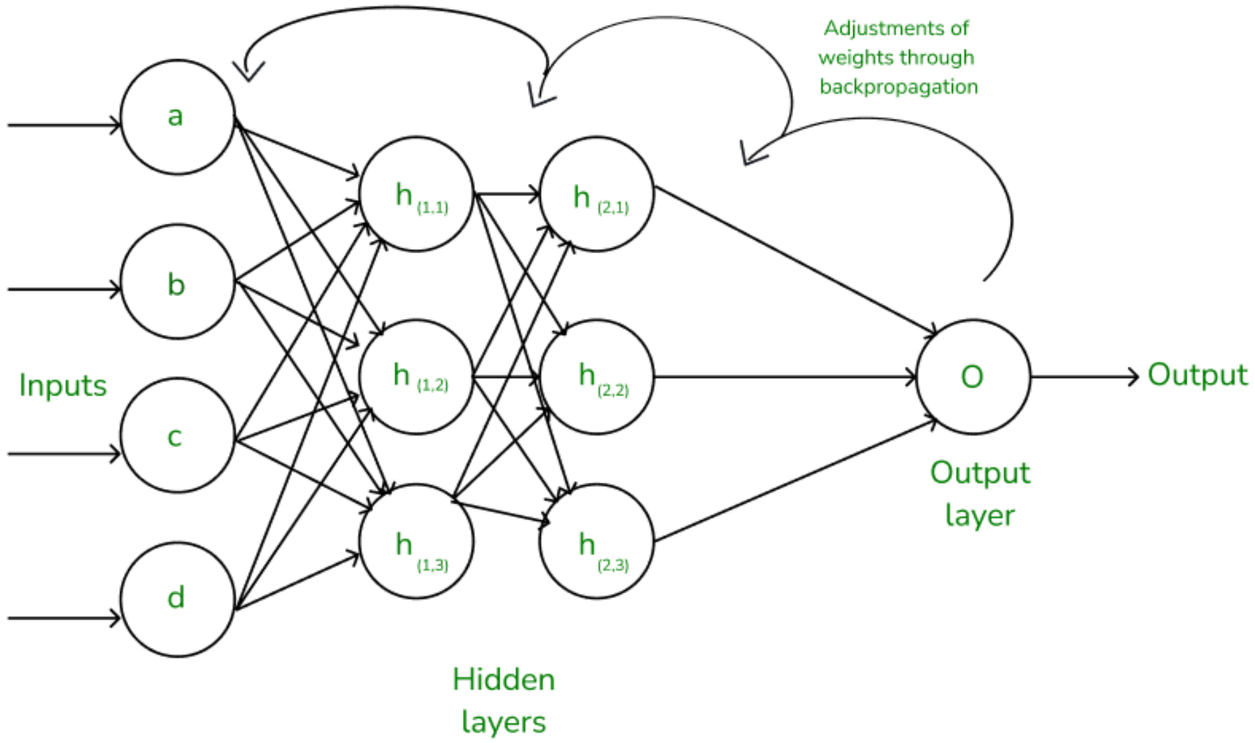
Deep neural network

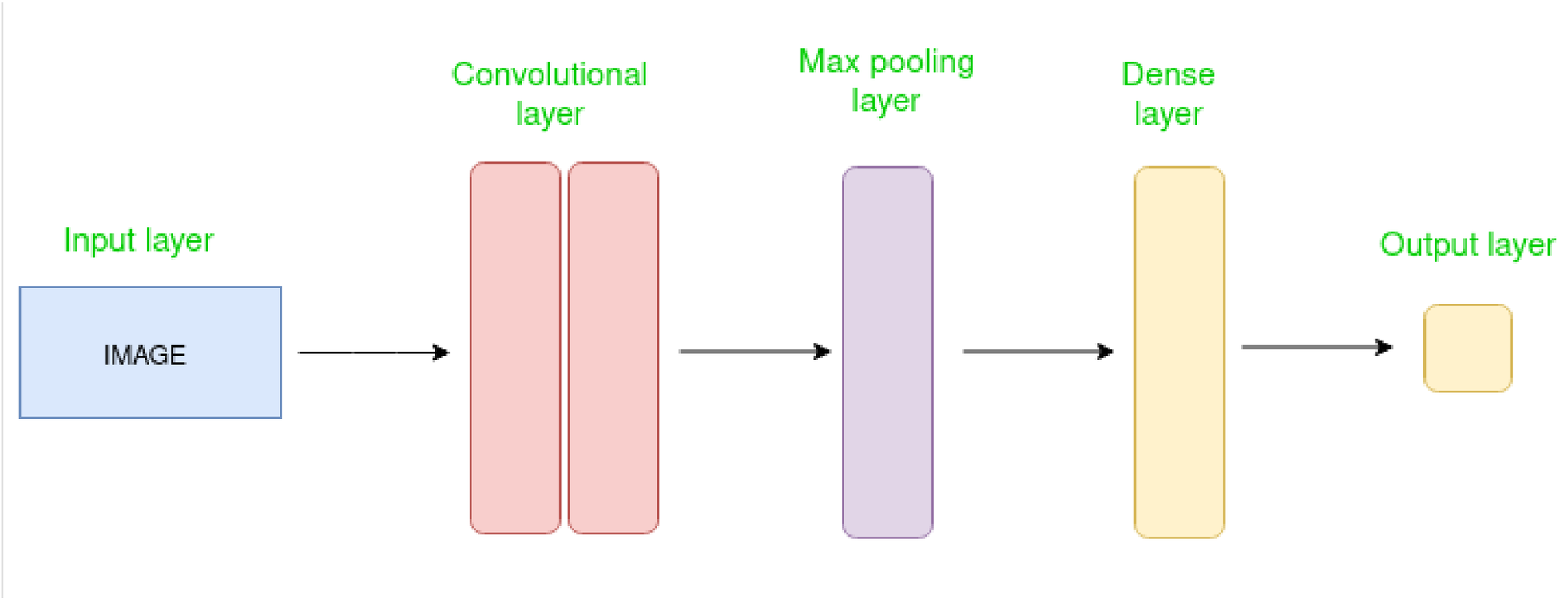


forward propagation

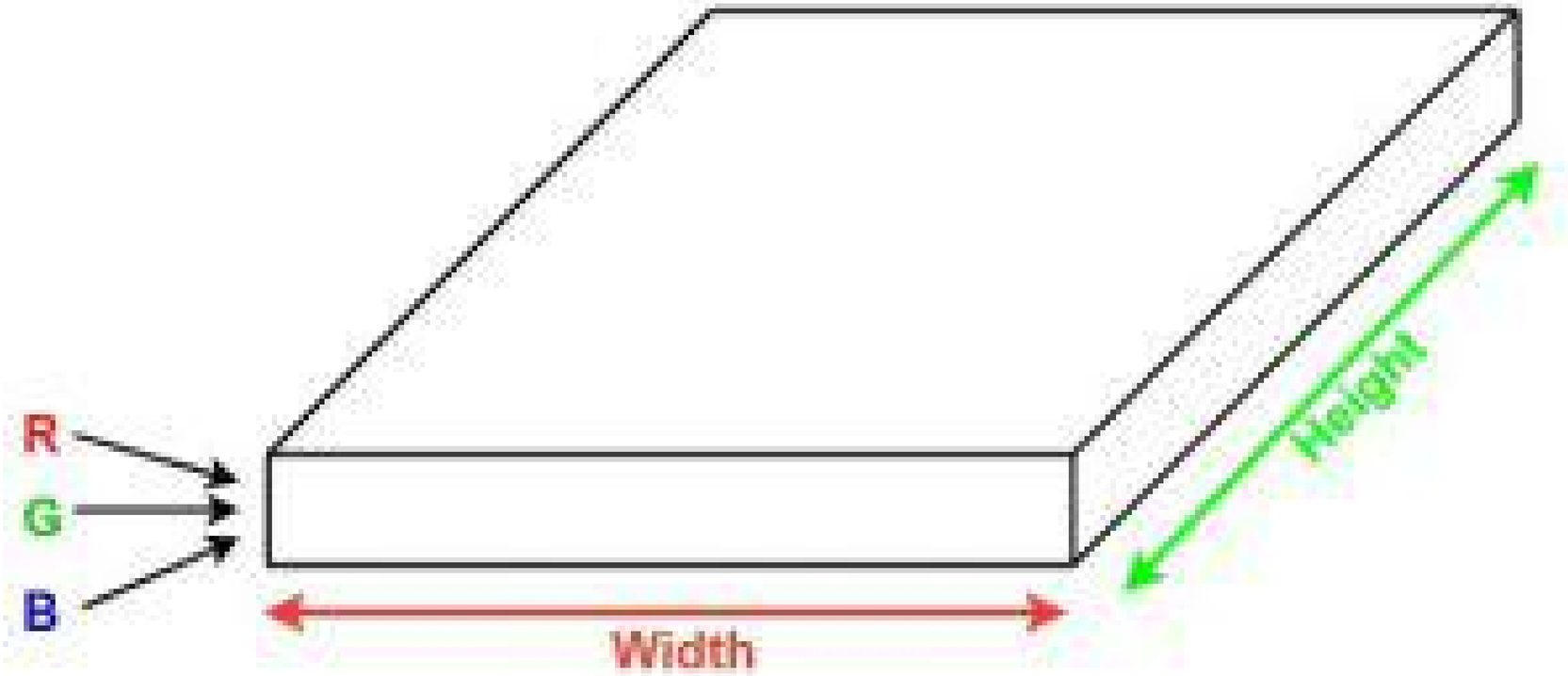


Backpropagation.

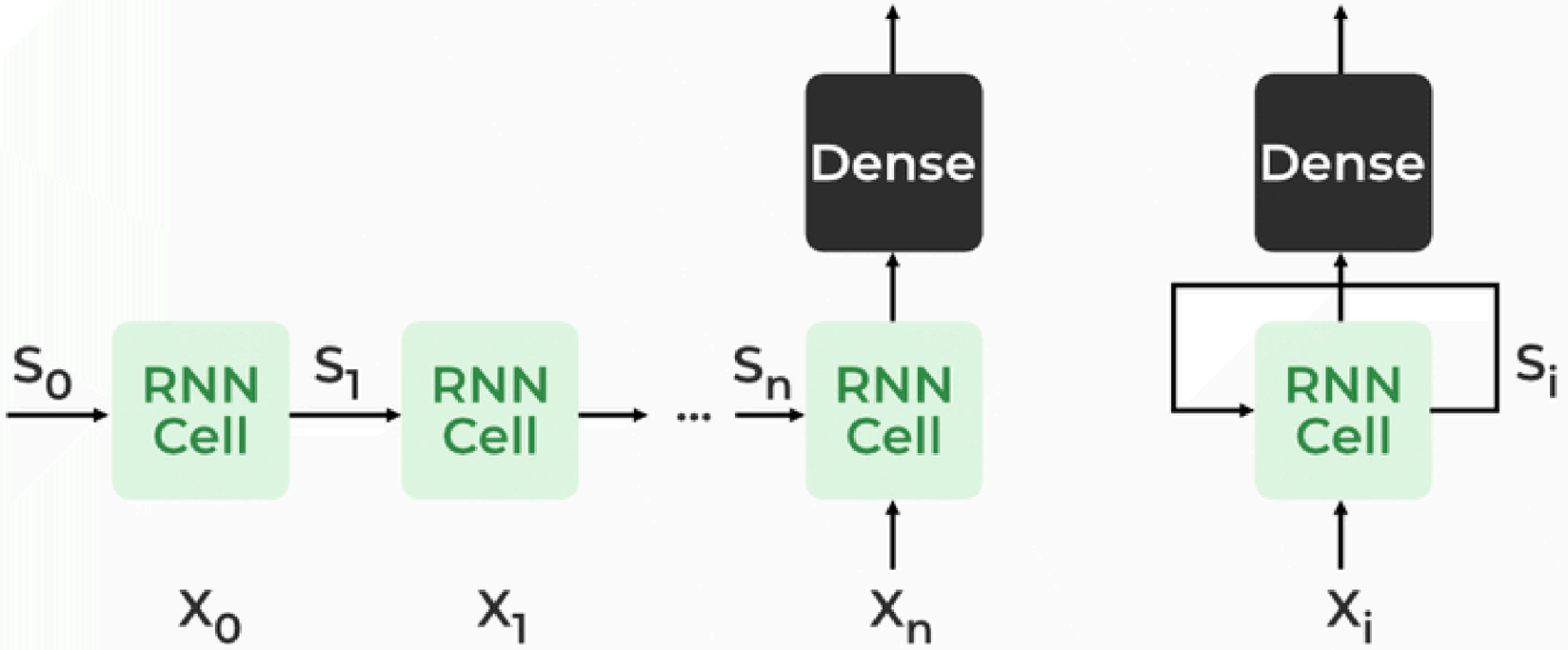


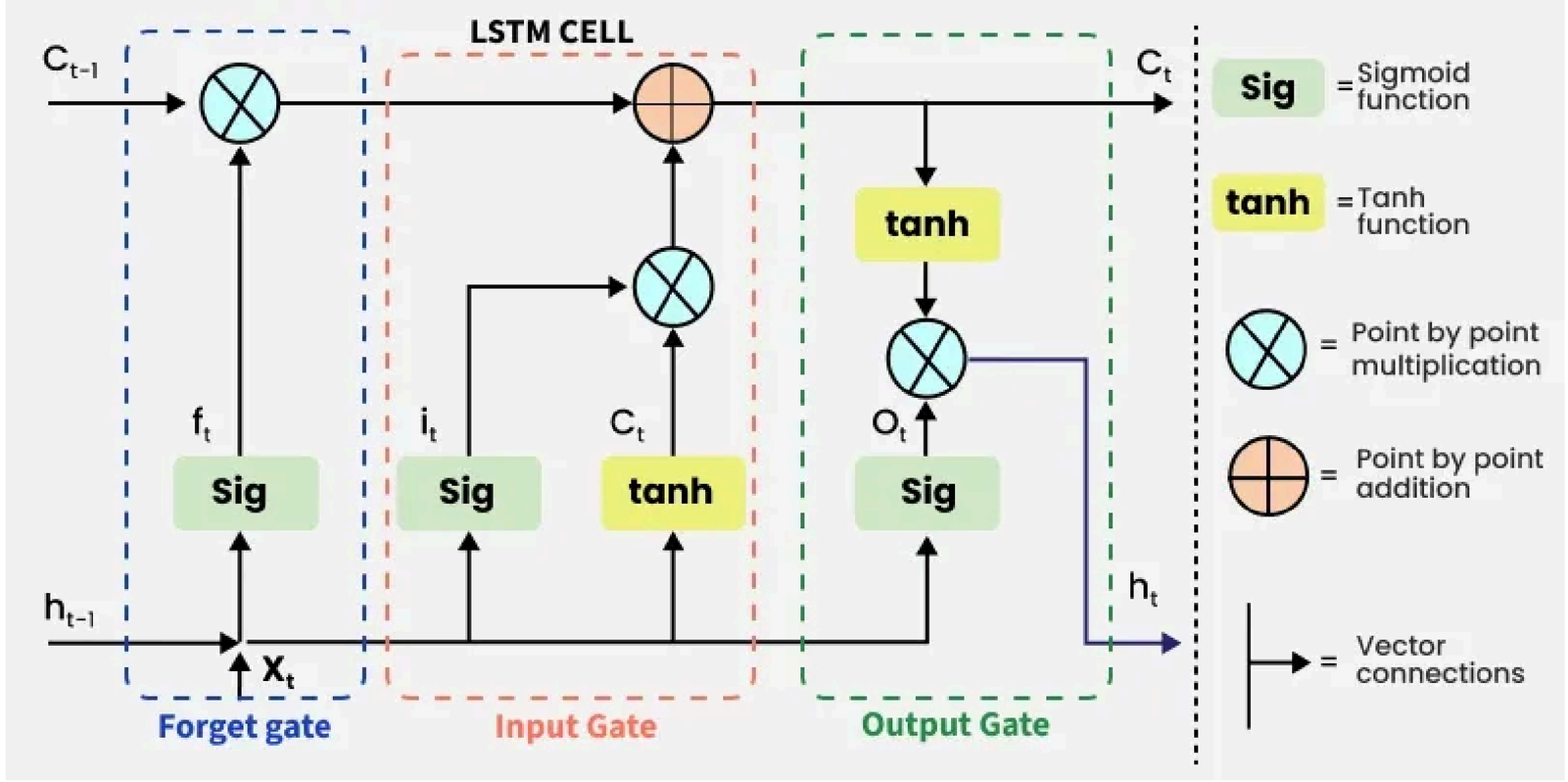

Input layer
IMAGE
Convolutional layer
Max pooling layer
Dense layer
Output layer

nvolutional Neural Networks



RECURRENT NEURAL NETWORKS




LSTM CELL
C_{t-1}
C_t
h_{t-1}
h_t
X_t
f_t
i_t
C_t
O_t
Sig
Sig
tanh
tanh
Sig
Forget gate
Input Gate
Output Gate
Sig = Sigmoid function
tanh = Tanh function
= Point by point multiplication
= Point by point addition
= Vector connections