In-Class-10 Madhu Peduri

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1)	Three inputs to LSTM module.
	a) $C_{t_1} = Cell \text{ state at time } t_1$ b) $h_{t_1} = Output \text{ Vector at time } t_1$ c) $X_t = Input \text{ vector at time } t$
2)	Outputs of ISTM module a) $h_t = Output$ vector at time t b) $C_t = Cell$ State at time t
3)	Input of LSTM module "remembers" previous inputs and outputs = Ct-1
4)	Outputs from LSTM module that "remembers" previous inputs and outp
5) a) b)	Xt, ht-1 > Sigmoid, Vector Concat Xt, ht-1 > Sigmoid, Vector Concat Xt, ht-1 > Sigmoid, Vector Concat
6)	×E, helicel
7)	XL, CL, hL-1
8)	aob = [1,4,5] o [2,6,9] = [2,24,45]
9)	S(f(x)) = 1 (1+e-f(x)) where f(x) = WfXt + uph + bp
10)	CE = foc + it o tanh (WeXt + Uch + be)