I. That are	Talk Lourna	1 lov in	abad avoy 11	
lazy dog:				
Jave	)			
Reavoinging the terms in alphabetical order				
and created a one hot encoding				
1 2 3 4 5 6 7 8				
00	000	0 0	1 -180	
(00000010)quick				
	0 0 0	0 0	o J hown	4
000	100	0 0 1	fox	
(00	010	0 0 1	] Jumped	
(00	0 0 0	l 0 (	Jover	
(00	000	0 0	1) the	
[0 0	00	0 0 0		
	000	0 0 0	71 .	
	0	V.,		
<b>3</b> .	Animal	color	action	
The	0.02	0.01	0.01	
quick	0.04	0.03	0.88	
umaed	0.07	0 92	0.01	
fox	0-92	0.01	0-02.	
Jumped	0.08	6.06	0-89	
over	0.04	0.06	0.05	
laxy	0.05	0.07	0.08	
dog	0.91	0.01	0.01	
V			7	

D Toput gate: of (with -11, si, J+bi) forget gate: o, (w) (hi-1, xi] 1 bj) Output gale of (we the 1, xi) + bo) Carry gale of (we The -1, 24 J. +bc) Corry state = 1/p gate \* carry + carry stall + forget gale State t = ofp gale \* os (carry state) where on = sigmoid or = +anh 4. Sigmoid function is used in input, output and forget gates. It sections two values [0,1] thus when for 0 -> forgets, Pt = 1 -> remembers, and so signoid in is used. For the carry for tanh for in used which return value (-1, 1). Block gate uses tanh in that sectume Values from [-1, 1]. 5. PSYODLEMS of RNN 1) Does not leaver long term dependences fuell 2) Gradients get vanished 3) Peroblem with relaining info seen many

LSTM:				
aceross timestamps.				
aceross timestamps.				
Thus solves vanishing gradients usue				
Reduction 4 and I see also designed				
6. Bidriectional RNN'				
Palocerses both in chappologi				
and in severese chronological ways.				
Thus it can be used				
in applications where sequences is important				
1 address and my been in account				
Making Lang. Processing				
Use: Natural Lang. Processing. Text Analytics				
TEXT Fivergres				
Worser: Temperature Rudiction				
Water reinfertaces record				
7. Seq 2 Sequent to the land of the				
Converts sequences from one lang				
to other domain				
TO CINCI CONTROL MAN ACT MAN				
Emoder: selmes med part count the de the				
The wood take 10 and the Maril 11				
nice (Start) Il faut beau				
1 Internal				
LSTM State 2 LSTM				
(h,c) It fait beau (Stop)				
Il Jack Beau (310p)				

