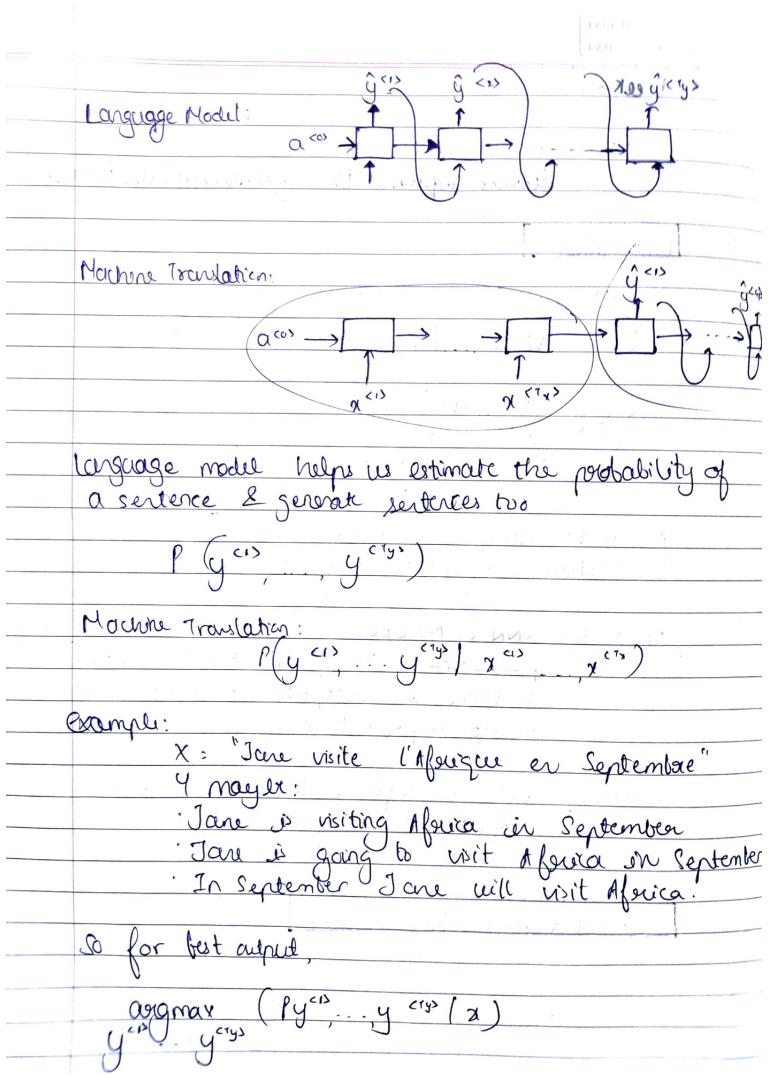
PAGE NO

	Week 3.
1	- A' -
	Various Sequence to Sequence Architectures
(ideo 11	Basic Madels
	y <1> y <1 >
٩	Jare visite l'Aforique en septembore
	Jane is visiting Afoura in September y(1) y(2) y(2) y(3) y(4) y(3) y(5)
	Many to many models able cered in machine townstation & speech becognition
	encoder - RNN/LSTM/GRU
	inputs the takes as input the whole
	sentence and outputs a vector that
	should supresent the whole input.
	decoder - takes in sequence built by exoder and
	outputs new sequence
Video 2:	Picking the most likely rendence

1



	DATE:	, ,
l de la companya de l	Gererdy Search	7
•	first word- most likely first for woord according conditional language model.	ording
0	second most likely	
	there must likely	
Ĵ	X working	
EX.	eample "Jane is" most discoley beginning often is going o's most common we "Jane is going to be visiting Afourca September". P (Jane is going - 1x) > 1	brecon n'e n'e (8) - 1120
	Jane i In September, Jone will visit Afe	9
	Her African foured welcomed Jan in St	ptember
Video 3:	Ream Seasich	· ·
er,	B=3 bean width	
	input fourth sentence -> encoder	coder output

	70 0
	Jane most likely liginning woords
	September U
	Then for each of the above words the most
	likely 2nd cooled will be generated according to
	100 In there will 3 most likely
	Then for each of the above woords the most likely 2nd coord well be generated according to \$200 in there will 3 most likely upcoming words I so on for the rest.
	Out of these again top 3 test possibilities are selected.
	390 CC .
	£ 50 × n
Video 4:	Refinements in Bean Search
	ligth normalisation
	7,.
	agg max III P(yet> x, yer>)
	1.e P(y"> - y c (y) /x)
,	= P(xx) P (x, y <1)
	Probabilitées are too small
	what log
	agg max 2 log P(y<+> x, y<->>)
	σ.,
	1 2 log P(y<+> x y <1>)
	Tua t=1 19 19 1, 9

	DATE: // /
	d = 1 (full normalisation)
	d20 (no normalisation)
	d > 0.7 4
	BT, time 1
1	
Vidlos:	Egger Analysis in Blam Search
	To segregate if everon is due to b/RNN
	or 2 Jane visite L'Alguisie en Sentenhou
	x = Jane visite l'Afguique en Septembri 2. y = "Jane visite Afguia in Septembri" 2 y = "Jane visited Afguia last Septembri" 2
	y = "I cae visited Alora lost control" V
	mora rast separtion 2
(ase (i)	
	P(u*IN) \ dans
	$P(y^* x) > p(\hat{g} x)$
	had as cognicio de la serie de
	beam search chose y authough y* has higher
	1912)
	blam seasich is at fault.
Ose 2	
	P(g* x) < (g x)
	RNN predicted P(g/x)>P(y*1x)
	RNN - faulty

