	Anish Souhdwa Date
	DTV/2KI6 (MC/13 Page No.)
	NLP Class Assissment
	NLP Clus Assignment Laplacian Smoothing
	Coopus:
	iscornis is a nice day ce really nice that is <e></e>
	Unigrams Count
Tropic Control of the	This 2
VP	12 3
	a
	nice 3
	day 2 257 2
7.	257 2
	Zez 2
	Ze> 2 Trally 2 it !
	V =9
	- the same and same a same
A	Bigrams bunt
	25> Tris 2
	This is
	a nice.
	a M.C.
	day e
	- Crung
1	

	CLASS FUN
	Date
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day is	
is really	
Teally rice 2	
nice really	
hice it	
it is	-7-
is cer	Na.
N1-13	
P Right with highest probability for	Just 10 ken 40
P(Tib(c5>) = C(Tho c5>	This) H
C (< 5>)	+ V
\$ 2 +1	3 - []
[3+2	15 5
452 This	
77/1/49	
Now, highest possing Mits for P()	(17).
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(ms)
P(n Dis), $x=is$	
(1/1/5) (1-1)	
Plis (this) - E(this) + V	1+1 2
(this +V	- 18 + 2 15
(17 kg) 1	
KS> This is	
P(sc/is) - to manining	
- (or) - ming	
3 options x= a.	
J 1/2000 11 - W.	

	Date Dage No.
Q V	$P(a/b) = \frac{(b/a) + 1}{(b/b) + 1} = \frac{1+1}{2}$
D D	268
	Stratence: 457 This is a
	P(x) a) x=mile
	P(hice a) = C(a + 1) + 1 + 1 + 1 + 2 - 1 $C(a) + 1 + 1 + 1 + 1 + 2 + 1$ $C(a) + 1 + 1 + 1 + 1 + 2 + 1$
	Sentence = <5> Très is a Nice
	P(n(nie) > = it
	P(it/nie)- C(nie, it)+1 = 1+ 2-1 V(nie)+V 13+3 16 8
	Sentence: <5> This is a rice it
	P(x it), $n=is$
1	$\frac{P(b it)^{-} ((it,b)+1 - \frac{1+1}{2} - \frac{2}{3} - \frac{1}{4})}{((it)+1)}$
	Planter (e: Ly> This is a rice it is
	Playis): He have 3 options (is a) (is really), (is, <e>) be sundonly select (is really)</e>

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P(really) is) = c(is, really) +1 = 1+1 c(is) + V = 13+3
= 2 1 16 8
Sentence RS> Tris is a nice it is really
Now, of the need to find P(si) really)
we take sc = Teatly nice
P(nice really > - < (really nice) +1 ((really) +V
$\frac{2}{13+2} = \frac{3}{15} = \frac{1}{5}$
Sentence: <5> This is a hire, it is really nice
We now need to monimize P(se/ hice)
(nice, it) We have 3 options (his, day) (hice, Study) (nice, it)
He randomly select (rice, day)
P(day rice) = ((rice) +1 1+1 2 ((rice) +N 13+3 16
<u>-1</u> P

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	Statence:
	<5> This is a nice it is really rice
-	day
	We need to maninize P(sc/day)
	We have 2 options (day is) (day <e>) We sandonly select (day (e>)</e>
	We sandonly select (day (e)
	So P(CE) day = (-(day se)) +1 = 1+1
F	So p(ce) (day) - ((day se)) +1 = 1+1 ((day) + V 13+2
	= 2 15
	Gentince:
	<5> Tris is a rice it is really nice day <2>
	Since we have to an end the language
	Since we have some to an end, the language generation will stop.
	T the almost barrens the complete blocker
	is taking a sundom value when words
	is taking a sundom value when words with equal probability are awaitable.