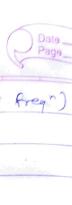


11) One Hot encoding! OIP Text The food is good DZ The food is bad 0 The Pizza is Amazing 03 Vocabolusy i-The food is good, bad, Pizza, Amazing [1000000], (3) rector representation 0100000], for DI. 0010000] 000 1000) 7 [10000000] [01000000] 0010000] 000010077 D3 [[0000000], ] L Dz 403X7

		N .			Date Page	5
	OHE ac	van tage	2 (-			
->	Easy to ;	mplement				
	OHE Disc	col ventage	2 !-			
	Sparse medi	rix s	3 0104	A.L.		
-	FOR TOL ALC	forthum	Pix siz	thing.	<b>\</b>	
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->	outo 4 vo	ca belany	( 00)	(100)		
12)	Bags of a	broc				
	Dataset					
	T			61-	,	
	Text 61P					
	He is a go	od boy				
	She is ag			1		
	Boy kgirl					
Shr						
Ste	$p^2 \rightarrow 10 \text{ we}$	The te	words			
			T2		1	
V	Clabwary	Freque		g 0 0 d	boy	918)
	7009	3	(51)	1		0
	girl boy	2	S2 S3	<b>&amp;</b> (		

0)	Binny Regal words contain only 140  normal Payot words contain counts the frequency Page  Advantages of BOD
	the second secon
<b>→</b>	Simple & intulie
->	fixed size 21P. for mc Algo.
inc. Alle.	Disadvantage of BOW
→ → →	Sparce metrice problem NLP = Overtiting ordering ofwoods getting changed.  Out of vocaboloury (000)  Sementic meaning is still not caeting.  If The food is good  See the food is not good.  Everting the food is not good.
	Si [ 1 1 1 0]
	52 (111111111111111111111111111111111111
	Show near  Show near  Using PCA we convert this in 2D aplot
	Showing near to
	em ·

				Dete Page	0
(3)	0-grams				
	S The	foodis	9001		
	5: - The	food is	nor good		
241	vocabolury 4	e remo he	Stopword	S	
	food	not	9000		
3		Õ	1		
52		\	1		
5.42	Food not	sons Bood	food good	Foodnot	notgood 0
	SKIEARD	→ N-gro	(1,3)	> Unigra  > Unigra  > Unigra  Doi, bi  > bi, toigra	to bi



JDF

ST S2 5

10ge (3/3)=0

10ge (3/2)=

loge (3/2)

no. of rep. of words insent

no. of words in sentences

no. of sentences. Contains the word

no. 04 Sentences

9000

boy

9:01

girl girl

2 x log (3/2)

3 x loge (3/2) /3 x loge (3/2)

53

1/3

1/3

1/3

1 x (10ge (72)

( W sz > good girl

SI -> good box

S3 > boy girl good

Term freg =

JOF= loge

Term freg?

1/2

1/2

9000

0

Asnal TF-IDF

51 1/2

1/2

9/2

51

Sz

52

9000

boy

9:51

TF-IDF (Jerm Forgo - inverse term frego)

alt	note: 1835.	the importance is
ſ	vote less.	( ) Data Freque
	ndvantages of Tr IDF	
	- Simple implementation Fixed size - Vocabsize	
	word importance is capture	201,
\$	disadvantages	
	- sparse still exist - over tithin - over to the of vocabology).	
15)	word embeddings	
	that represent the meaning of worm into simple number so that compand and work with them.	of they win word
<b>439</b>	Happy excited.  Argn	Happy excited.
	word embedings	
	SOHE TO BEGO	peep learning models.
	→ B60 . TF-70€ (B00)	Skip gram

alt	role: 1622.	
	ndvantages of Tr IDF	
X	- Simple implementation	-
	word importance is captured.	
¥.	disadvantages	
	- sparse still exist - over titting - OOV (out of vocabolony).	
15)	word enbeddings	
	that represent the meaning of words. They wim words into simple number so that computers can understand and work with them.	
PCP	Happy excited. Happy  Respond to the service of the	
	word embedings	
	Deep learning models.	
	L TE-3 DE CBOW Skip gram	

