PAGE No.	
DATE	77

*	Word Embeddings:					
	To NIP word embedding is a 1					
	to the representation of words for text analysis					
	traically in the form of real-valued vector is					
	encodes the meaning of the word and It					
	words that are aloger in the work that the					
	too the representation of words for text analysis typically in the form of real-valued vector that encodes the meaning of the word such that the words that are closer in the vector space are expected to be similar in meaning.					
	aparted to be strilled in meaning.					
	Total					
	lypes &					
	15th A. J. S. Marshan					
	1) Frequency 2> Prediction					
	Based Based.					
	is Bow is blood ? Wee					
	it Bow it Word 2 Vec.					
	HIXTEIDE					
	wy II.LU!					
*	What is Word 2 Vec ?					
-	The state of the s					
_	Word embedding technique					
_	2013 google engineers developed					
_	Converts word to vectors					
	can find Semantic meaning of words.					
_						
_	Dense Vector [No Overfilling]					
	Deep learning technique.					
	* Word 2 Vec Creates features based on Vocabullary					
	Hord ? Vec Creates features based on Vocabulary					
_	7 In neural network architecture we cannot able					
	Se to see and understant the created teature					
	of architecture.					

	PAGE No. /
	features king Queen Man Woman Monkey Gender
	L. Di
	Power 1 0.2 0.2 0
	Weight 0.8 0.4 0.4 0.9 0.3
	Speak 1 1 1 0
	* The underlying aspect assumption of word 2 vec is that
	two words sharing similar Contexts also share a
- 1 1	Similar meaning and consequently a similar vector
	representation from the model.
*	Type of Word 2 VeC.
	> CBOW
	2> Skip-gram
	is to do the last the
*	1) CBOW
7.07	(Continuous Bag Of Words)
	(reates dumny (take) problem
	Solve - Yectors
	(By product)
	Watch Cabr Fot Data Science
	Contest Torget Context
	word Watch, too abc
(1 a a a a watch abo. Data tox
0.11	a 1 a a a aba for Science Data.
ONE	0 0 1 0 0 tor
	O O O 10 Data
	0000 Sairce

DATE BOW Architecture Initially Update weights backpropagation 0 randomly assign. 0 abc -1 (loss) 3 X5 Science o 5X3 0 layer (Predict Probablity) Neural Network back propogation and adjust weight in such a way resulting output meet the required output. The updated weights are the vectors for our vocabultary (byproduct)

die en Specialis							
		PAGE	1//				
1	Skip -gram						
*		,					
	Works in Riverse manner of CBOW.						
	> Works in Riverse manner at CBOW. > Target Value is given as input and Contentual text is output.						
	text is output.						
	Watch Ibed for Data Science a						
	Watch [bod] for Data Science Campus X - watch for for Jampus X, Oata Data for Science						
	to	<i>(</i> -	- Campusx, Late				
	1,00	ta	tot, duelle				
	Skip-gram Architecture	10	T				
	(Weight Updation) -> Back	1.2	0				
	D. manl	9,	ó				
Random		0	0				
weights mitializa	tion I cva	0	0				
MITIONE	0 3/3	17 66	1 1				
	0		11 1 1				
	3x5	ione!	Vocabulary				
	* Fully Connected Softman	- 5					
	O Network. Softmax	-	1				
	lager	1	1 *				
	The Color of the use CBOW	Fact	ex & Accurate)				
	* For Smaller Data - We use CBOW * For largez Data -> We use Skip-gr	(nm	[better results]				
V	* for largez Data - We that start						
*	In improve quality of Word 2 ver En	bedd	ings				
	Tracease Training Data.	ne i	7				
	-> Increase dimension of Vectors [his	den	layer nodes				
A STATE OF	To improve quality of Word 2 ver Em Therease Training Data. Therease dimension of Vectors [his Therease Window Size.	_	0				