					9		2			,)a		
	J Capte up	Bow -> term frequency 1 amongs sparse	0 0 C	ensive.	capture each word; but very	1000 o Sparse representation	1 2 3 4 JAMES 101 JUNE 200 6 75	Also known as fore hubbly representation.	~	Or in vector space:	Animal Boa Trick	70 bo)s:	Statistical based approaches treated words as
					HPI								

	Animal: [00010000.]=V
	Dog: [000001000] = V,
	Truck: [0000100000]= V3
*	Distributional Representation you shall know a word by
	diff meaning in diff context. Company it keeps: John Rupert.
	-some of the most successful ideas of modern NLP.
	-> Linguistic unlits with similar distributions have
	Similar meanings of one store to the second of the
	-> A bank is a financial institution that accepts
	deposits from the public & creates credit.
	-> The northern bank of the rivers is flooded.
	EXTER ONTO YEAR OF ENDING PROPERTY OF THE
*	Co-occurrence matrix se soul a 22 back de de
	-> A co-occurrence matrix is a (terms x terms) matrix
	which captures the number of times a term appears
	in the context of another term.
1 1 2	-> The context is defined as a window of K words
	around the terms
	The same franch than but 2000 bod mid the same
	(cive n-gram) captuing in form of a matrix
	" language model with
	a like that at post
	2 The language model chature is sisce of
	対抗性性 - A A A A A A A A A A A A A A A A A A
	(Take (NN)
	car contre context (too 1714.19 537
	The last of the service

	mass Juractuarden											
\$	Distributed Representations											
	and real-value.											
	-> compact, dense, low-dimensional and real-valued											
	representations											
Constitution of the Consti	representations -> Also, known as word embeddings each single -> Also, known as word embeddings each single											
	component of the vector representation does not have											
	to the teather											
	hand to be t											
	among uninterpretable vector components.											
	(Each word as a dense represent?)											
	Co-286 and meroretable											
5 . , N	arumais = of dear											
	LOSS OF THE LOSS OF THE PROPERTY OF THE PROPER											
	0.34 man = woman (wo: 2 31)											
	[0.512 What exactly some woors mean.											
*	(closeness of two words)											
*	word Embeddings (feed with neural network)											
x jed p 1	- 1 mod m. prinkert, alokeorpen will a sugrad 3 ast											
	- They are numerical representations of words in a											
continuous vector space, where each word is m												
	to a dense vector of real numbers.											
C 2	tes as see vector of reach with see											
	is These vectors capture the semantic & contextual											
	meaning of words based on their usage in a large											
	corpus of a text.											
	is Transformer based: GPT											

	TILLIAM F X 7
1 50 30	color coding of vectors help us interpret the similarity
	blu 2 words.
	TO THE DIVINE DAY OF PRESENTING TO PROPERTY OF THE PROPERTY OF
*	
	→ You can add & subtract word embeddings and see
	the concept of analogies.
	King - man + woman & queen.
	A MAN TO THE MENT OF THE PARTY
	model. most_similar (positive = ["king", "woman"), negative = ("man"))
	maramasas of the Hills ((Xnolum Lu mapantra)
-107 13	
	T-SNE visualization 21 9.20 mod 8 mp & 4.00
	word embeddings
	Care all travel documents to a model
	50 dim 2 dim most words related
Section Section	NAMES OF THE PARTY
·	each word has so features (city)
	(Feeling)
	info captured for a word (relative) (food)
*	vector Embedding of words
	TECCOT CITIBELICATION OF THE STATE OF THE ST
11-17	(1996)
	latent Semantic Analysis/Indexing (1988)
	· Term weighing based model.
	· Consider occurrences of terms at document level.
2.	Word 2 vec (2013)
	· Prediction-based model.
	· Consider occurrences of terms at context level.



	Date Page
K	Prediction Based Models - wordavec
	-> wordzvec is a neural network-based model created by Google researchers in 2013 to learn word embeddings (ie; vector representations of words)
	These embeddings capture semantic relationships blu words, enabling similar words to have similar vector representations in a high-dimensional spau-
	-> In 2013, proposed wordzvec can be trained using two new models.
*	CBOWM
	-> CBOWM focusses on guessing a word based on its
	Fredicting nom word given the context words. Ex: The quick brown fox jumped over the lezy dog. 1 00 010 0010
	(network is learning that wherever there is quickfor it should be followed by fox).

				u z e				
	dimensimality.	embeddings are learned and the size depends on the	-> The hidden (see second) layer is where the word	-> Training data: All n-word windows in the arpus.	surrounding the target word.	18+8	-> The input (first) layer is represented by a one-hot	Classmate Page Page