NLP INATURAL	LANGUCIE PROCESSINGI
ten a ama	lege, understand and derive meaning
part of AI where computers was	Alge January
meaningful into from Human dar	
	Libraries NTLK (Natural Lary) Bestly Spacy
comput. NLP .M.	, Forth
Linguistics (D)	2000
Linguistics NLP (ML)	LSpacy
	6
Application > Automatic Summon > Sentiment Analy	recipation
> Sentimor Analy	Pis
> Speech Reasgnist	(d)
Named Entity R	e complete Stexical Ambiguity
	ecognition Syntatical Ambiguity
NLP >NLU (Natural Lang Understa	ndy) - Referential Ambiguit
NLG (- = - = - General	had Tout Planning
->NLG (-9,-9,- General	Sentence Olombia
	Sentence Planing Text Realization Syntactical Ambiguity Two or more nearing possible meaning
Lexical Ambiguity	Syntactical Ambiguty
Ambiguity of a single world	Two or more narring possible meaning
She bagged two silver medals	= al Ohp. chi-loss is to a lete
Sto pagge at "Tue spender	Eg of the chicken is ready to
She made a silver speeds. His worinshad selvered his hair	
	chicken amount chicken dish sold brief is ready prepared partied
silver snound Sadj Squest	bird is ready Treponed featerd
Sount	Referential Ambiguity abres have mony ref
7000	John met Tom & Harry . They went to get
	John went with Tom/ Hany on both to garden?
	to garden 1
Corpus> Docs->P	ona-s Sentences -> Tokans
Collection of	
text docume)	

Tokenisation seperating piece of lext into m	maller cents called blocks
partigraph nute sent-topenise (paragraph)	tiki word-tokeneise (paragraps)
Stemming & deminatization used to analy	the meaning of
Stemming Is reduce known to their	Lemmatizatin
historical shistori	history history
finally final fina	finally final final
going 3 go gone 3	Converts inordo to mord that a is understood by human
Stopwords stopwords words ('english') Eg i, me, mepelt, in out, you, y	an jevouldn't etc.

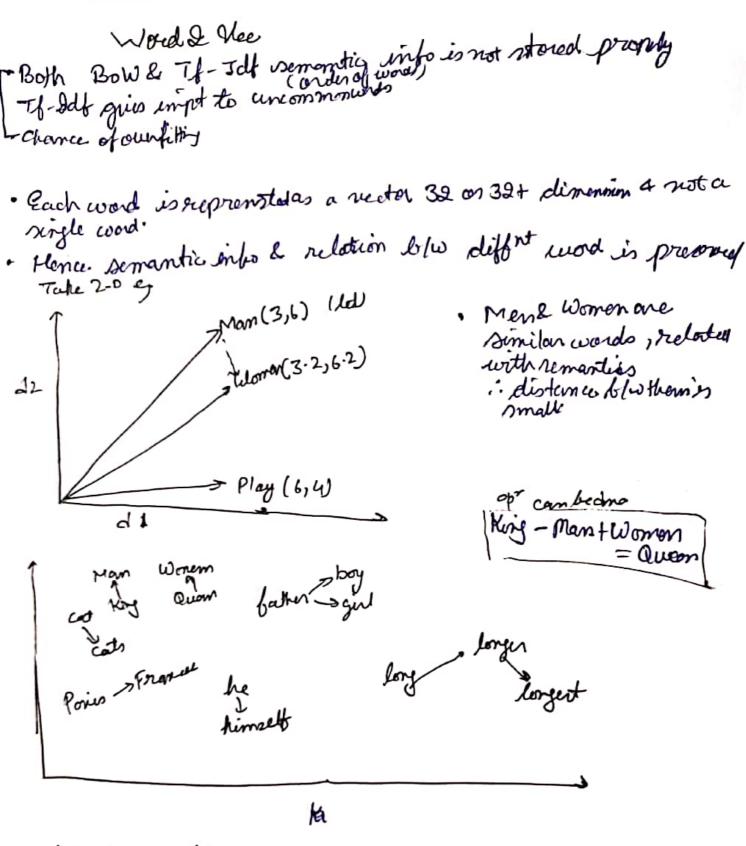
Bas of Words

Boog pool & Senel: He is a good boy Sent 1: Send 2: good girl Serd 2: She is a good girl Serds: Boy girl good Serd3: Boys & girls use one good (Except country) Nord Grood 3 2 Binary Bag of Word \$1,62,62 are independent nariales & ofp data will be used to train ML/JL model (i) "good" 2" Boy" have equal repressation. Semantics of there words are almost, we aren't able to derive which word is more impt. (good >> boy) Sol FT F IDF (term freg & inverse document freg) Lo word wer (huge data et)

It - 106 = If & 106 TF = No of representation of words in a sentences IDF: log (No of sentences containing words) Words Good boy sent 2 -> good boy sent 2 -> good girl Histograms OTFreg Table sent 3-s by girl good I tfill vectors TF JAF words Sent 3 Sent 1 Scrtl lo385-0 good good 1/3 1/2 1/2 105(32) 1/2 0 log (3/2) 1/2 0 fz f3 diffute sop empt girt good gives to good, boy, gil, trying to bring in semanta meany (log3/2) = Sentl 0 1/2 (1/23/2) 0 Sent 2 0



Scanned with CamScanner



tokenize -> histogram -- mtake most freg words

matrix of all unique words