## Convert 1 ext to Numeric Vechos.

	n=1 hugrams
1. Bag of Word	u=2 bi-grams
2. Binary Bow	N=2 $N=3$ tri-grams.  exicles mus sive
3. TF-IDF./	-> DI: I love pasta - Pasta is tasty /> Bigran
4. Wordsvec	DI: I hate pasta. Pasta is cheap X
Siverbox 2 Nocabi. hist	
Sive Vocab): hist	2 unique words 8
Vocas: I	love pasta hate is tasly cheap = 7
BBOW!	1 2 0 1 0
) 2 !	2 Journal 0 1
21 21 21	
1 2	the classification / clusting

TF-IDF

-> Term Frequency - Inverse Document Frequency

Term Frequency = No. of times the word occurs in the doc.

(TF)

Total no. of words in The doc.

Document Frequency = No. 2 documents in Which the word occurs

(DF)

 $IDF = \frac{1}{DF}$ 

VD2: The truck is driven on the highway Term Freq IDF log (IDF) \DI  $\mathbb{D}^2$  $\mathcal{D}^{\mathsf{I}}$ The 2/7 2/7 2/2 0 – 0 car 1/7 0.3 0.043 1/2 Truck 4 1/2 1 0.043. 0:3 2 1/7 4 2/2 O 0 0 driven 1/7 1/7 42 Q 1/7 On 1/7 7/2 D 1/7 mad 1/2 0.043 Ð 2 ტ.კ 0 highway 17 0.3 0.043 1/2 9 O

DI! The Car is driven on the road.

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> D1	0	0.04	3 0	ð	ъ	0	ם ים	73 D	tue
D2			0 .64						
	, ,			l			, ι	1	•

-> (Sentiment Analysis / document classification) '> is there ticket available Chennai to hoa } / Working for a Seats from Chennailo Goa-Deep learning models. -> Sentence Completion (LSTM) Many is very dever. She has got good prospects. Machine translation - grammer.



