Performance Review Research

Language model optimized with least amount of data

(Hild language againstion

Best, Roberta —intraditional sense, boy are not turns

(at least abillian parameter)

Unatapt - General task solvers

Bench mark of chartopt in summarization datasets

General task solvers are baker man specific task solvers

Reformance of um in low research language.

only good at previously seem data

Task untaninalim

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	Edit distance: way to quantify string similarly
•	gellinmistale: Graffe
	geninmistale: Graffe grail spell checking
• •	
• •	Harvard President Claudine Corelleence
	Harvard university resident claudine if two strings
	antain sume
• •	antity
•	The apple. was led
	The apple was big andred4\$ deletin - 2\$
. 1	2. The fish was bline & substitution
•	2. The fish was blice> 25 substitution
•	25
	15t was mic similar to the string.
• •	dss-is cost=8 INTENTION - EXECUTION
• •	INTENTION - EXECUTION
	min Edit Distance? J=14 Lise DP (Dynamic Programmity)
•	J. Can start from S = d + 1 - seach problem
• •	Find nost ast efficient approach

Edit Distance Algo

1. Levenshtein
2. Hanning Distance
3: Jago-imbles

Token-loused.

1. Cosine-Similarity (Similarity intext/my)

. . . /2. Jaccach Index.

3. Treisley Intery

sequence-based (programmaing)

1. LCS (hongest commun substitut)

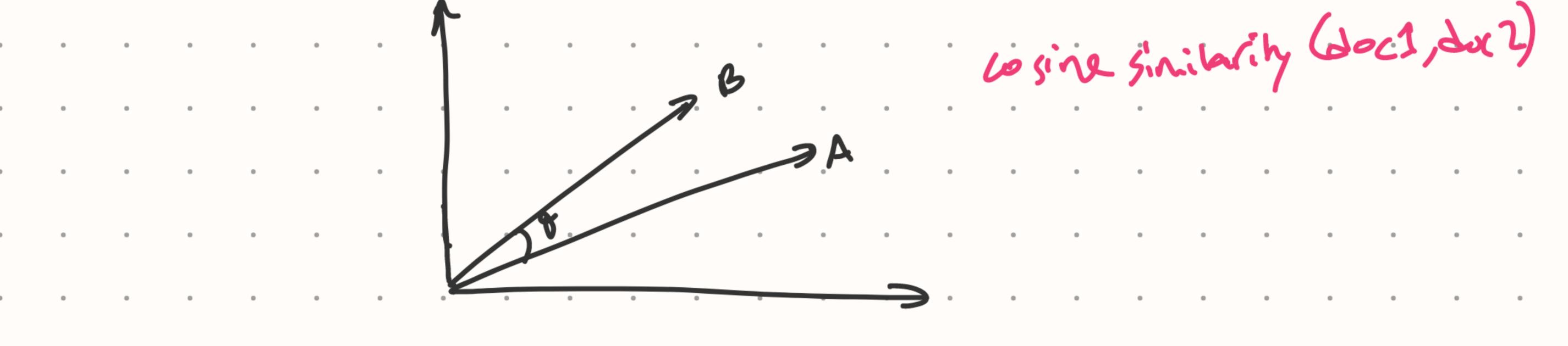
Cosine-5milarity

converts he whole corpusints somedin rectors.

and projects it.

smilar sentence -> smilar acres

2 same sentence -> project on each other



						Doument 1: The cost in he host.
						Do wment 2: A black lat ma black hat,
•	•	•	•	•	•	
•	•	•	•	•	•	
						DOL-> vectors: Find all unique token s from tubdoss
)	•	•	•	•	•	Doc1 2 1 1 1 0 0 Frequency Doc2 0 1 1 1 2 2
•	•	•	•	•	•	
	۰	•	۰	۰	۰	2 1 1 Fragrancy
	•	•	•	•	•	<u> </u>
	•	•	•	•	•	Doc 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		•	•			
,		•	•		•	. [2]
•	•	•	•	•	•	$A = \begin{bmatrix} 1 \\ 1 \end{bmatrix}, G = \begin{bmatrix} 1 \\ 1 \end{bmatrix}, \vdots \vdots \vdots \vdots \vdots \vdots \vdots \vdots \vdots $
	٠	•	•	•	۰	
•	•	•	•	•	•	
	•	•	•	•	۰	
	•	•	•	•	•	$A = \begin{bmatrix} 2 \\ 1 \\ 1 \\ 0 \\ 0 \end{bmatrix}$ $A = \begin{bmatrix} 2 \\ 1 \\ 1 \\ 0 \\ 0 \end{bmatrix}$
,	٠	•	•	•	•	
	•	•	•	•	•	coone similarity (doct, doct)
	•	•	•	•	•	$= \underbrace{A.B}_{-} = \underbrace{2.0 + 1.1 + 1.1 + 1.1 + 0.2 + 1}_{-}$
		•				11A11-11B[1]
	•	•	•	•	•	= 0.342

There should be a (- v) value hearen'actly. Insight 2) The boc anne after he parient died. Wine Similarity cannot detect semantic meaning of. senteure. · (m5). amoutstimality stong (Pros) - sensithe to sentence long. (cons. sparsity - having a lot of 0s in rections smatrix come create sparse vectors that will dominate the similarly entire value. Jacard Index is much sensitive to ankest in finding J.C= ANB AUB

	Jacuard similarity (doct, doc2) = doct / doc2.
	dout docz
	if 2 do cs taking about same context
• •	dous-stokens
	J.S 3 (The, 'artin'; the', that' 3 () 3 1/4; black ; cut ; h.
• •	
	¿(pe', 'cat', 'in', 'hat', 'a', 'bkch')
	$\frac{3}{6} \approx 56\% \text{ similarity}.$
	zup of tolenization/ lemnatization.
	threw, throw -> W/O remarktishor Consider (verb turns) here diff.