S1: "data science is one of the most important courses in computer sciences"

S2: "this is one of the best data science courses".

\$3: "the data scientists perform data analysis"

Bow:

C	data	science	is	one	of.	the	most	important	Course	s in	compute	thi	slber	# sciondists
01	1	2	1	1	1	1	1	1	1	1	1	0	0	0
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53	2	0	0	٥	0	1	0	0	0	0	٥	D	0	t sciantists O D

İ	perform	analysis	Total length
81	0	0	12
82	D	0	9
83	11	1	6

S1 redors [1211111111100000]

Sz vector; [111110010011000]

53 vector : [200004000000 DIII]

1	classa	Science	is	one	d	the	most	im portan	Course	sin	kompute	eofthis	best	scientists	perfora	nanal
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Inverse Document Frequency:

	IDF
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Science	6-18
is	0.18
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the	. 0
most	0.48
important	0.48
courses	0.18
in	6.48
computer	0.48
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best	0.48.
scientists	0.48
perform	0.48
analysis	0.48

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most	0.038	0	0
important	0.038	0	0
Courses	0.014	0.0198	0
in	0.038	0	0
Computer	0.038	0	
this	0	0.53	0
best	0	0.53	O
scientists	0	0	0.77
Perform	0	0	0.77
analysis	O	0	0.77

Cosine Similarity

-> between SI and SI

 $\cos = \frac{81.52}{|81||82|}$

20.496

[51] = (33)2+ (25)2+ (-19)2+(-33)2+(-33)2+(-25)2+(-33)2+(-25)2+(-

(S1) = 1.316 = 1.147

1521 = (42)2+(-32)2+(-25)2+(-32)2+(-32)2+(-32)2+(-32)2+(-25)2+(-42)2

[S2] = 0.995

cos 2 0.496