Assignment # 05 Date: 12/30/2022 Introduction to Data Science Question No. 1 Solution: S1 "Sunshine State enjoy sunshine"
S2 "biown fox jump high, brown fox un"
S3 "sunshine state fox un fast" Box Model: sunshine state enjoy sunshine brown for jump

22 1 1 2 0 0 0

0 0 0 0 2 2 1

1 1 0 8 0 1 0 52 52 0 0 53 Total un SI Ó 52 S1 $\{2, 1, 1, \frac{1}{2}, 0, 0, 0, 0, 0, 0\}$ S2 $\{0, 0, 0, 0, \frac{1}{2}, 2, 1, 1, 1, 0\}$ S3 $\{1, 1, 0, \frac{1}{2}, 0, 1, 0, 0, 1, 1$

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<u>TF</u>	model 1-) o'	7 +3	/10 ⁻¹ . †	1 14	y ,		
	to (surshi	ne')/=	_=	it.				
	sunshine	star		'oy	brown	for		
th-S1	1/2	1/1		1	2/7	2/2		
tb-52	1/5	1/2	- 14)	0	1/5		
	jump)	nish	bacun	tast		M a was		
th-S1	0	nigh	A	tast	113			
tb-53		1/7	1/7	1/.		<u>``</u>		
			\~ \					
70	F model:		4.5		1,8-4	2		
IDF	(sunshine)	•	log l	9(3/	2) =	0-405		
IDF			l.	0		0-405		
FDF.	(enjoy) (blown)	=	lo)	(1) =	0.693		
"	4	= -	log	,00		0-693		
1/	(fox)	=		(3/1)) =	0.693		
1	(high)	- =	log	3/1)		0.693		
11	(sun)	= "	109 (3/2)		0.405		
11	(tast)	=	log	(3/1)	=	0.693		

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