## Assignment 2

## Locality Souritive Hashing

C, C2 C3 C4 C9 C6 C7 0 2, 1 R<sub>2</sub> 2 3 4 2 3 3 1 2 3 1 3 R3 R4 4 1 3 1 2 4 4 Rs 5 2 5 1 1 5 1 R. 6 1 6 4 1 1 4

Given that LSH with three bounds of 2 broan coals

From Rand, i.e rouse R, and R.

C, = C4, C1 = C5 have some Cardidate pay

From Bonds, i.e round Rz and RA

C, = C6 how some Countidate pois

From Band 3, i. a rows Rg and Rg

C,= C3 , C4 = C7 have some Cardidate pais

(2) Givon,

N pairs of signatures that are so's similar H pain of signatures that are sor, similar Given bande is are 1, 2, 3, 4, 6, 8, 12, 24

was read to the other of the water water and

	Stunet	FP 1-(-5")	FN (1-35)	
31	h = 2	0.99	5.9 6.8	•
	24	0.38	0.031	
2	17		0.34	
3	6	0.06	0.678	
4	6	0.009	0.678	
6	4	0.0002	0.988	
8	3	7-67 e		
4 AOA	2	g-19 e <sup>-9</sup>	019995	
24	,	6 Marie Mari	0.9999	

H: N ws the vatio 1:1 thes charge 10:1 than chave 4:20.70 100 :1 thous charge of = 1 0.99 thous charge of =1 0.99

3 Given, ABRACADABRA BRICABRAC

How wary two shingles does ABRACADABRA have ! AB, BR, RA, AC, CA, AD, DA, AR, Total . 7

How wany two shingles does BRICABRAC have? BR, RI, IC, CA, AB, RA, AC Total 7

How many a - shingles of they have in comman ?

Common = 5

$$IS(C_1,C_2) = 0.5$$
  $IS(C_2,C_4) = 0.2$ 

$$JS(C_1,C_4) = 0.23$$
 $JS(C_1,C_4) = 0.167$ 

	C,	Cz	$C_3$	C4	
R4	0	0	A4	~00	Mis hash value of
Ac	0	RG	R4	0	C, = Rs
ρ,	0	Re	R <sub>4</sub>	0	C2 = R6
R3	0	Re	R4	Re	C3 = R4
Rs	Rg	Re	R4	R3	C4 = R3
Ro			, par the Co		