L4 Min Hashing

Wednesday, January 15, 2020

Document

Det Vector

D: Kgrams

A: 3 V: CIPK who the property that as

K gets larger

TS(A:, A;) ~ JS(V:, V;

JS(A, A;) ≈ JS(V; Vj) gods deser-

Matrix (Vator Set Representation: (exact, but not space efficient)

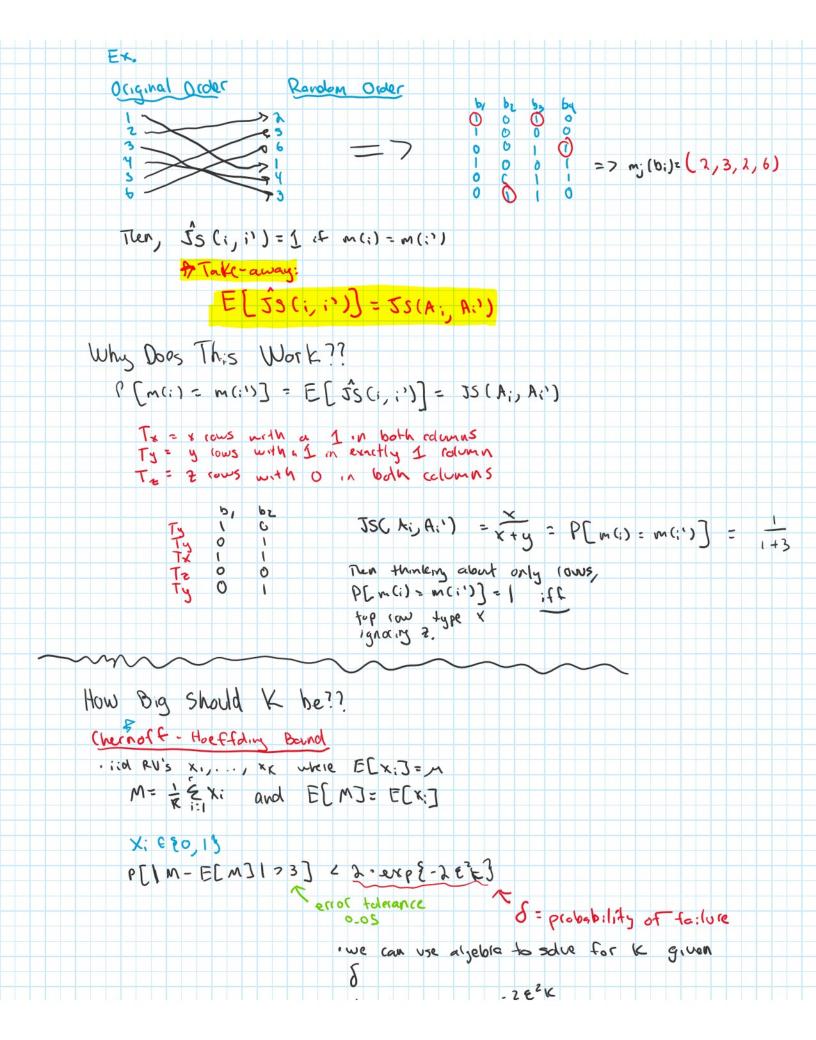
- Deployent set A: as bit vector b: f 80,13"

Min Hashing:

SI. Randomly re-order (permute) the rows (the 10.45).

S). For each set/column, find the top/first 1 bit. (b,=1, b2 = 3, b3 = 2, b4=1)

33. Repeat steps 1,2 K times



 $\begin{cases} S = 0.1 = 2e^{-2e^{2}K} \\ = 70.0S = e^{-2e^{2}K} \\ = 7\ln[0.0S] = -2e^{2}K \end{cases}$ -282

Fast Min Hash Signatures:

· Set A: to vector Vi & Zx

· K hash functions hj: (n) -> [n']

Alego

Alego

For $x \in A$: $a \circ a$ Instead

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