02 November 2020 14:17

You have a set of m elements -S= {s₁, s₂... s_m} {s_{1,000}...

Sloom filter gives us a way to represent this using an n-bit binary nector - A.

Given Sj. Compute h. (Sj), he(Sj)... he(Sj). Set A[h.(Sj)], A[he(Sj)]... A[hk(Sj)]=1.

To check it si is there in S, you greery all the above bits of A. If any one of them is zero, we know six & S. If all are I, then six may be in S.

There could be false pointines.

The prob of false pointines can be reduced by adjusting parameters to and I'm. The best adjusting parameters to and I'm. The best is achieved when roughly half

performance is achieved when roughly half the cereary A is O and half is 1.