Discussion 12

Topics: Hashing & Streaming

Hashing

- $\mathcal{H}$ family of hash function $\mathcal{U} \to \{0, 1, \ldots, m-1\}$ is universal if $\forall x \neq y \in \mathcal{U}$, $\Pr_{h \in \mathcal{H}}[h(x) = h(y)] \leq \frac{1}{m}$

Streaming

- Given a sequence of data, compute some features of the sequence without storing the entire sequence.