

How is Sketching Useful?

Classic Setting

- Compute a linear sketch of A quickly

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- Show that a solution can be found using $sk(A)$ quickly

Linear Regression, Low Rank Approximation etc.



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Turnstile Streaming



x

Updates: (i_1, Δ_1) (i_2, Δ_2) \dots (i_m, Δ_m)