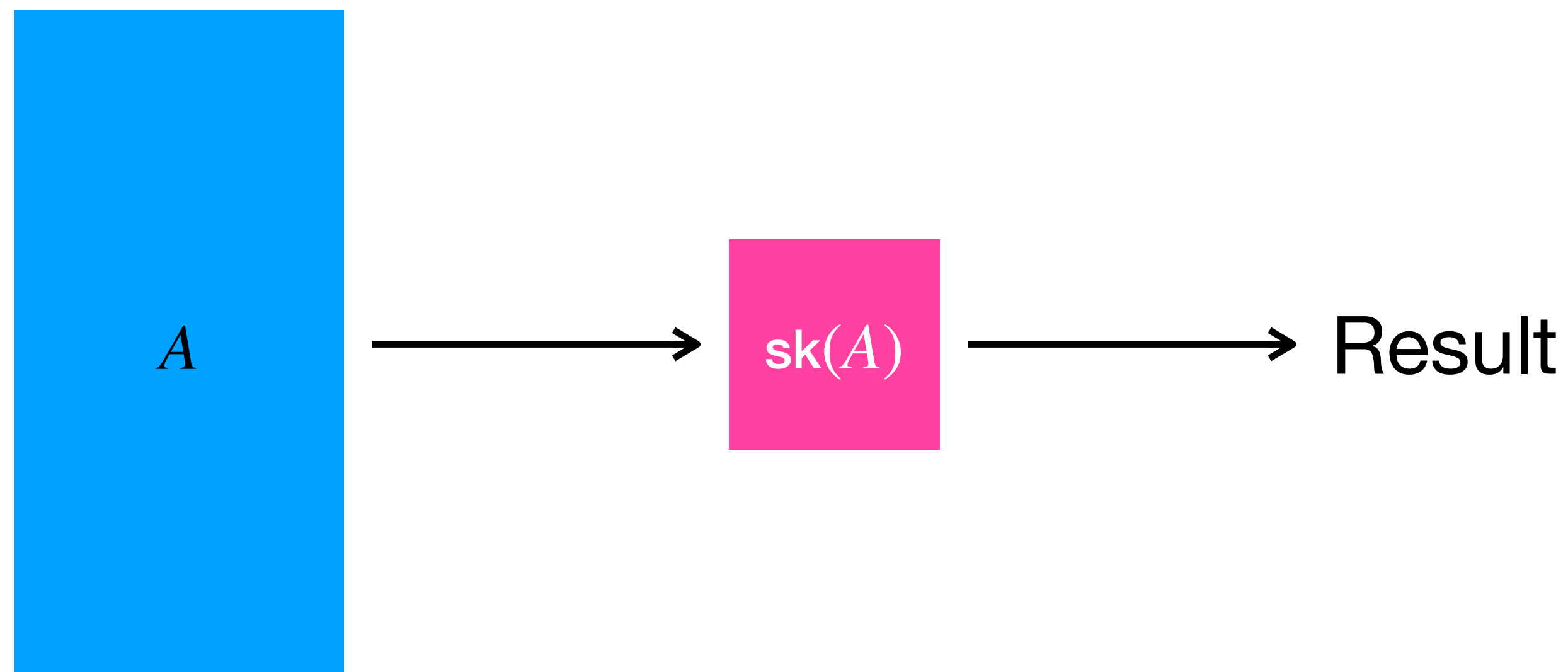# Sketching

- A broad set of techniques developed over last 20 years to handle large datasets

- Shrink the large dataset into a small dataset

- Efficiently perform computation on the small dataset

$A$ $\longrightarrow$ $\text{sk}(A)$ $\longrightarrow$ Result

# Linear Sketching