

# Classic Setting

- The matrix  $A$  is available to us and can be arbitrarily accessed
- Compute SVD :  $nd^2$  time
  - Very slow on modern datasets
  - Does not use sparsity

# Streaming Setting

- What if we see a row of  $A$  one after another?
- $A$  is so large we cannot store the matrix
  - Can we still do something?

