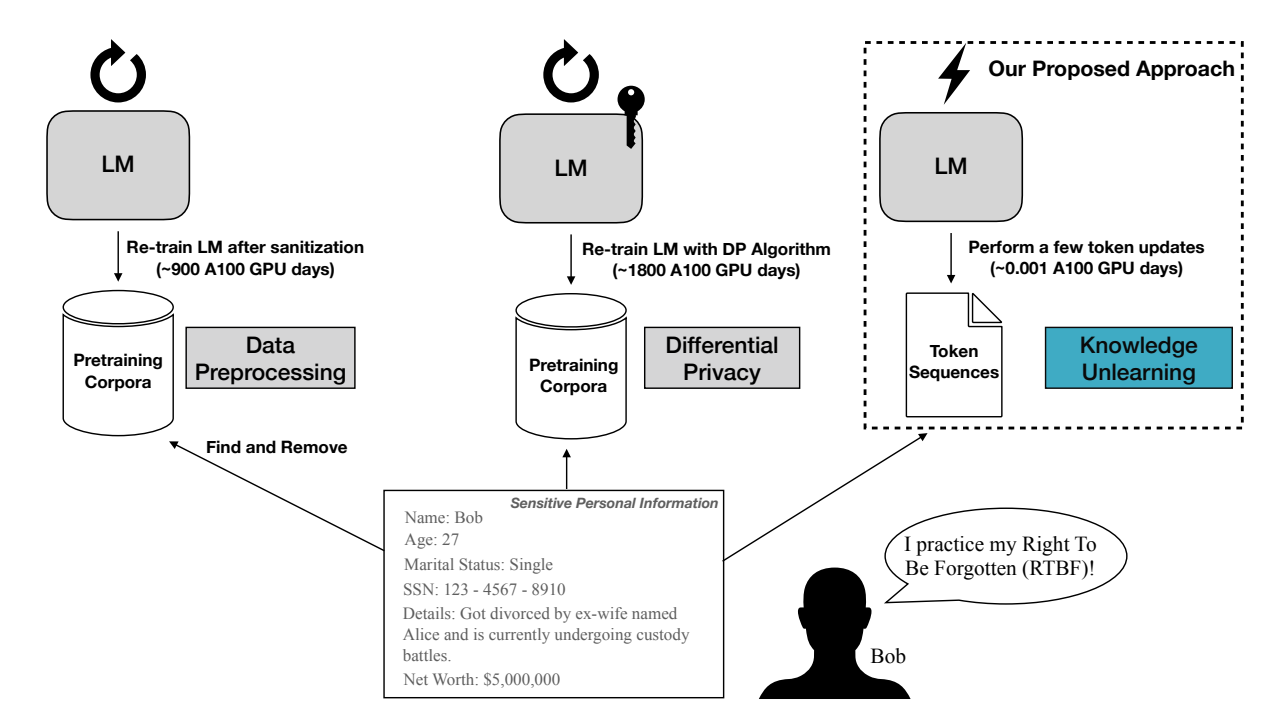

LM
Re-train LM after sanitization
(~900 A100 GPU days)
Pretraining Corpora
Data Preprocessing
Find and Remove
LM
Re-train LM with DP Algorithm
(~1800 A100 GPU days)
Pretraining Corpora
Differential Privacy
Our Proposed Approach
LM
Perform a few token updates
(~0.001 A100 GPU days)
Token Sequences
Knowledge Unlearning
Sensitive Personal Information
Name: Bob
Age: 27
Marital Status: Single
SSN: 123 - 4567 - 8910
Details: Got divorced by ex-wife named Alice and is currently undergoing custody battles.
Net Worth: $5,000,000
I practice my Right To Be Forgotten (RTBF)!
Bob