



Motivatiön

No defense against **both** privacy and business attacks

Can we use DDP (Central and Local) as a defense?

# Intuition:

**CDP** should limit information exposed about a specific participant

**LDP** same for records in a participant's dataset

In both cases, the impact of poisonous data should be reduced while simultaneously protecting against inference attacks

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# Motivation

No defense against **both** privacy and robustness attacks

Can we use DP (Central and/or Local) as a defense?

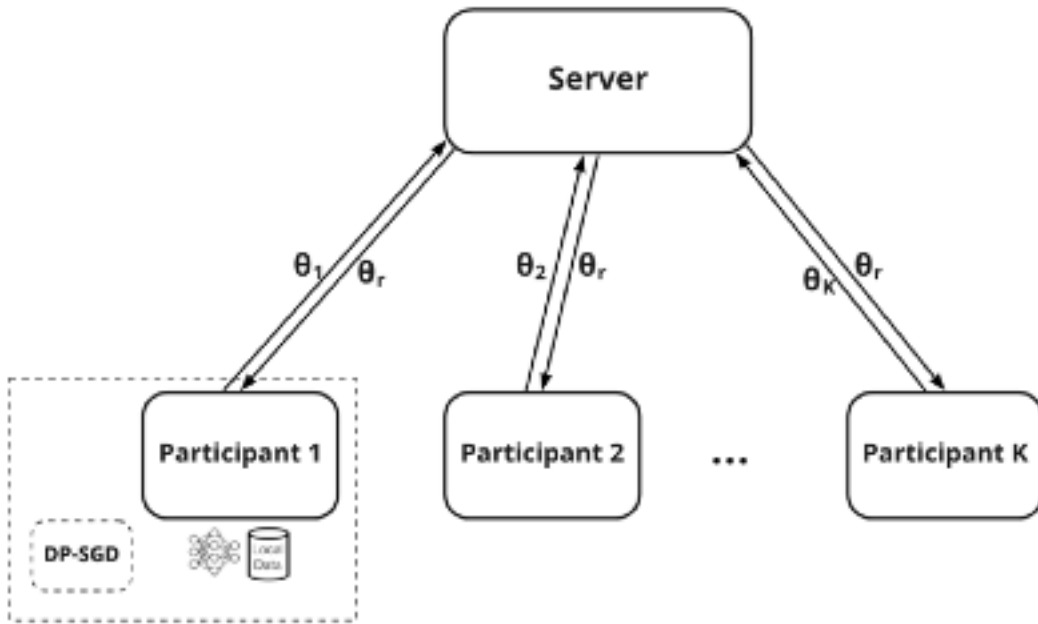
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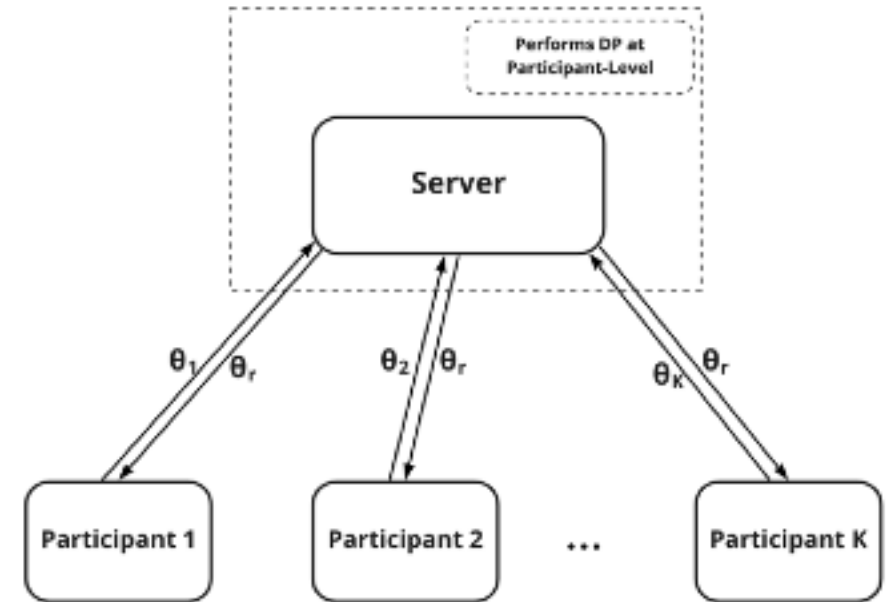
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In both cases, the impact of poisonous data should be reduced while simultaneously protecting against inference attacks

# Local vs Central DP



Local Differential Privacy  
(LDP)



Central Differential Privacy  
(CDP)