Precollected Data with Any Policy

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Sample tasks

$\mathcal{T}_1$

$\mathcal{T}_2$

$\mathcal{T}_i$

Compute adapted parameters

$$\theta_i' = \theta - \alpha \nabla_\theta \mathcal{L}_{\mathcal{T}_i}(f_\theta)$$

Update meta parameters

$$\theta \leftarrow \theta - \beta \nabla_\theta \sum_{\mathcal{T}_i \sim p(\mathcal{T})} \mathcal{L}_{\mathcal{T}_i}(f_{\theta_i'})$$
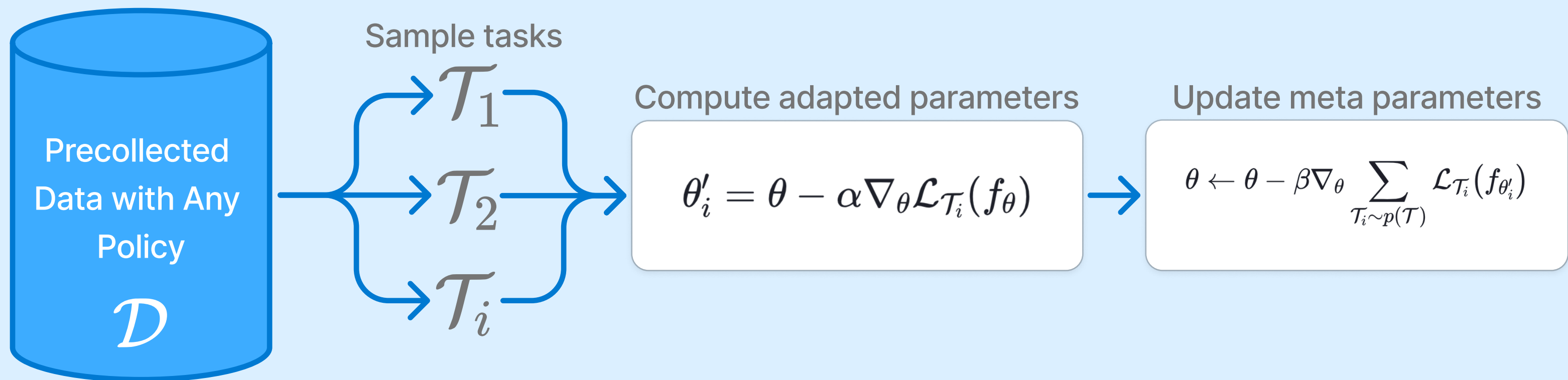
Deployment

Simulation $\mathcal{T}_1$

Compute adapted parameters

$$\theta_i' = \theta - \alpha \nabla_\theta \mathcal{L}_{\mathcal{T}_i}(f_\theta)$$

Model parameters adapted to new **simulation** task

Real world $\mathcal{T}_2$

Compute adapted parameters

$$\theta_i' = \theta - \alpha \nabla_\theta \mathcal{L}_{\mathcal{T}_i}(f_\theta)$$

Model parameters adapted to new **real world** task