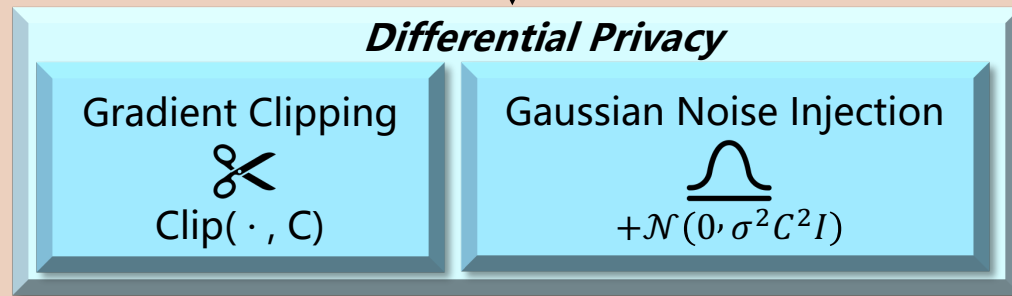
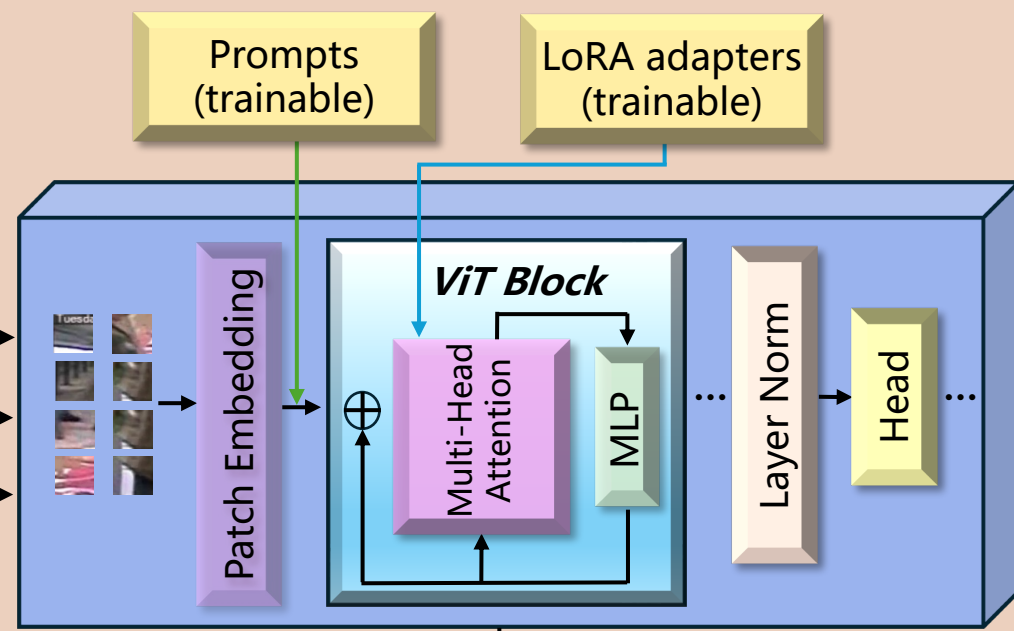
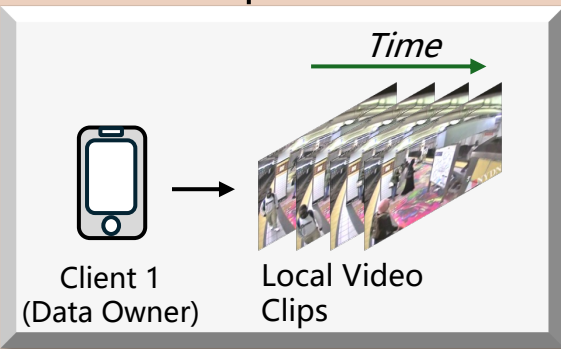
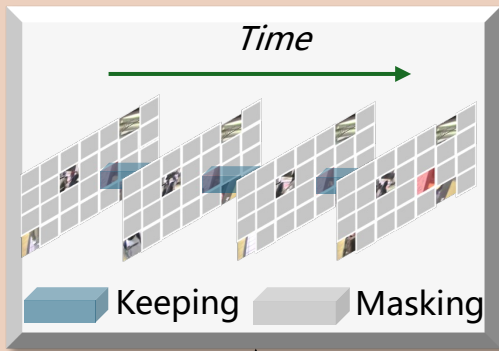


Client Side

Spatio masking with very high ratio

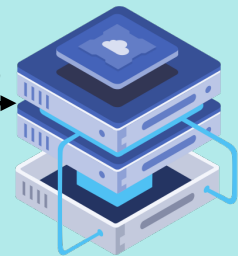


Server Side

Federated Aggregation (FedAvg)

$$w^{t+1} \leftarrow \frac{1}{K} \sum_{i=1}^K \tilde{w}_i^{(t)}$$

Global Update

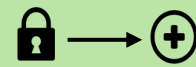


Summation Unmasking 

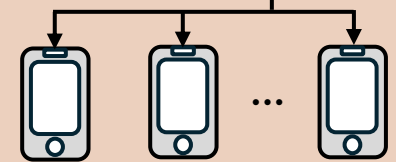
Broadcast Global Weights w^t

Masked Updates $\tilde{w}_i^{(t)} + \text{mask}$

Secure Masking



DP Update $\tilde{w}_i^{(t)}$



Client 2 Client 3 ... Client n