



**Task Publisher**  
The task publisher is responsible for publishing federated learning tasks on the blockchain.

**Smart contract**  
The smart Contract manages federated learning on the blockchain.

**Blockchain**  
The blockchain stores tasks, participants, models, and key training data.

**Nodes**  
The nodes include training nodes and validation nodes

**Local model**  
The local model is generated by training the node locally.

**Global model**  
The global model is generated by the blockchain network by aggregating all local models through smart contracts