191023

federated learning YOLOv4-tiny

to-do list

1. choose framework (e.g. flower, tff)

for client side

2. prepare local training data into tensorflow/keras format

3. convert YOLOv4-tiny into tensorflow/keras format

4. inside the chosen framework, train the model (Federated SGD), iterately

5. aggregate and update the global model

for server side

6. define a server

7. setup communication for aggregation between devices and server

overall

8. Training Loop: iteratively trains the global model by sending model updates to devices, aggregating their results, and repeating the process for multiple rounds.

9.Evaluation of the global model's performance