DLFi The Distributed Learning Framework Modular, Pluggable, and Cloud-Native





AT A GLANCE

DLFi is a Privacy-Preserving AI-as-a-Service (PP-AIaaS) solution. It provides a training environment on remote sites without necessarily displacing or transferring the data. It enables data providers to train a ML model without revealing their business-critical data to each other. DLFi offers communication-efficiency and guarantees the privacy of data owners.

Features

- Privacy-Preserving
- Cloud-Native
- Modular and Pluggable
- Customized Visualization Dashboard
- GPU-Acceleration Support
- Communication Efficiency

Applications

- ML Model training over geodistributed data sources
- Shared ML model development
 exploiting multi-owner data sources
- Secure ML model development over privacy-sensitive datasets

Technical Background

Conventional ML training has the safety concern of collecting all the data in a single place which potentially violates the privacy of the data owners. DLFi aims to solve this.

DLFi is designed at Fraunhofer HHI and it is capable of handling the distributed training of ML models based on geodistributed remotely located data. DLFi allows the training of a ML model over privacy-sensitive data and assures the data owners that their privacy will not be compromised.



