

FATE Development Committee Meeting

2022/4/7

Agenda

- FATE / KubeFATE 1.8 Update
- FATE 1.9 Feature Candidates
- KubeFATE 1.9 Feature Candidates
- FATE 1.9 Discussion
 - Cross platform interoperability
 - Life Cycle Management
 - Hardware acceleration
 - Upgrading tools
 - Architecture changes
 - Blockchain integration

FATE v1.8.0 (4.15)

- Pass System Integration and Security Testing
- The Deployment Testing is in process

FATE v1.9.0

> FATE-Arch

- Add better support for upgrading from older major versions
- Support Python version 3.8+
- Support interconnection between different versions
- Support interconnection between eggroll , spark, standalone backenn
- Support for heterogeneous acceleration architecture **(Maybe)**

> FATE-FederatedML

- PSI Supports ECDH Protocol
- PSI Support Exact Cardinality Estimation
- Support specifying columns as intersection columns
- Anonymous Feature Names Generation Optimization
- Hetero Feature Selection Support Selection By Anonymous Feature Names
- Hetero-NN Support PyTorch Backend
- Support Multi-Host In Hetero-NN
- Add Label Protection enhancement Strategy In Hetero-NN

<https://github.com/orgs/FederatedAI/projects/9>

> FATE-Flow

- Added site dataset permission control
- Reader component support feature anonymity
- Added api data storage type
- Add the api reader component to get the specified feature data
- fate flow support HA
- upload and table bind support specifying the id column
- fate client and pipeline optimization

<https://github.com/orgs/FederatedAI/projects/10/>

> FATE-Board

- Optimization of timer pause caused by browser label switchin
- Optimize UI component

<https://github.com/orgs/FederatedAI/projects/11>

FATE 1.9 Feature Discussion

- Cross platform interoperability
- Life Cycle Management
- Hardware acceleration
 - Intel acceleration for HE
 - Clustar GPU/FPGA acceleration
- Upgrading tools
- Architecture changes
- Blockchain integration
- Others

- Timeline ?
 - Requirements gathering 4/15
 - Development start 4/15
 - Release 8/15