

FATE Development Committee Meeting

2022/4/21

Agenda (April 21)

- FATE / KubeFATE 1.8 released
- FATE 1.9 Feature List
- KubeFATE 1.9 Feature List
- FATE 1.9 Feature Discussion
 - Cross platform interoperability
 - Life Cycle Management
 - Hardware acceleration
 - Upgrading tools
 - PSI Modular FATE
 - Blockchain integration
- Technical articles for community

FATE / KubeFATE v1.8.0 released

- <https://github.com/FederatedAI/FATE/releases/tag/v1.8.0>
- <https://github.com/FederatedAI/KubeFATE/releases/tag/v1.8.0>

FATE v1.9.0 Feature List

> 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 backend
- 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
- export PPML model for guest-single-y case
- Accelerated Paillier cryptosystem scheme on Intel AVX512/IFMA

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

<https://github.com/FederatedAI/FATE-Community/pull/42>

> 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>

KubeFATE v1.9.0 Feature List

Project Dashboard:

<https://github.com/orgs/FederatedAI/projects/5/views/1>

Details:

<https://github.com/FederatedAI/FATE-Community/pull/43>

FATE 1.9 Feature Discussion

- Cross platform interoperability
- Life Cycle Management
- Modeling Visualization (<https://github.com/FederatedAI/FATE/issues/3893>)
- Hardware acceleration
 - Intel acceleration for HE (<https://github.com/FederatedAI/FATE/issues/3909>)
 - Clustar GPU/FPGA acceleration
 - (<https://github.com/FederatedAI/FATE/issues/3811> proposal: <https://github.com/FederatedAI/FATE-Community/pull/33>)
- Upgrading tools
 - <https://github.com/FederatedAI/FATE/issues/3803> <https://github.com/FederatedAI/KubeFATE/issues/556>
- PSI-modular FATE
 - <https://github.com/FederatedAI/FATE/issues/3854> <https://github.com/FederatedAI/KubeFATE/issues/581>
- Exchange authentication (<https://github.com/FederatedAI/FATE/issues/3929>)
- Blockchain integration (<https://github.com/FederatedAI/FATE/issues/3868>)
- Others
- Timeline
 - Requirements gathering 4/22
 - Development start 4/22
 - Release 8/15