Al Explainability WG

May 2023

May 2023 updates

- TrustyAl service
 - Improvements to metrics endpoints
 - Calculation data size configurable per-metric
 - Metadata includes representative values
 - More robust REST payload validation
 - Per-metric configurable thresholds
- Python TrustyAl 0.2.12
 - Mostly fixes around the Tyrus visualisations^[1]
- Community
 - Architectural Decision Records (ADRs) for proposals^[2]

Community

Community

- Community repository^[1]
 - Community information
 - Contribution guidelines
 - Code of conduct
- Architectural Decision Records (ADRs)
 - Approved ADRs:
 - ADR-0001: TrustyAl external library integration^[2]
 - ADR-0002: Metrics and XAI namespaces^[3]

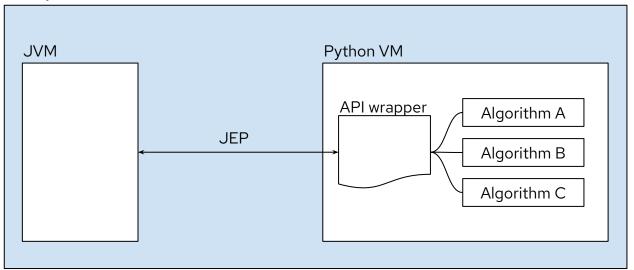
^{[2]:} https://github.com/trustyai-explainability/community/blob/main/adr/ADR-0001-trustyai-external-library-integration.md

^{[3]:} https://github.com/trustyai-explainability/community/blob/main/adr/ADR-0002-metrics-and-xai-namespaces.md

TrustyAl external library integration

External library support

TrustyAl service

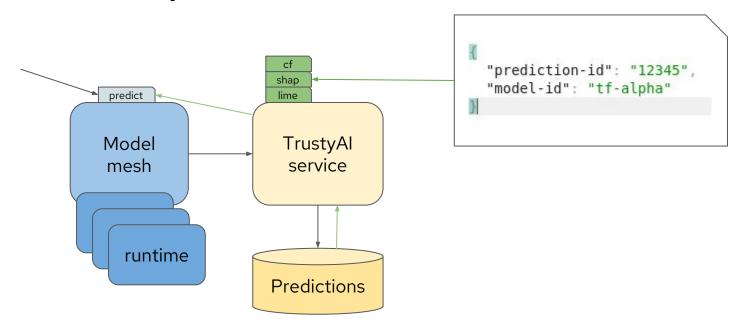


External library support

- Communication API
 - Ongoing development
 - Determine general requirements for metrics / explainers
 - Representative APIs
 - Data structures for marshalling
 - Performance benchmarks

TrustyAl Explainers Endpoints

Explainers Endpoints



Roadmap

TrustyAl 2023 roadmap

July 2023 TrustyAl 0.2.0

- Explainers
 - Support for explainers LIME,
 SHAP, CF at service level
- Metrics
 - Flexible scheduling/batching
 - Improve service metadata endpoints
 - Include available categories

September 2023 TrustyAl 0.3.0

- Explainers
 - Support for external explainability libraries
- Metrics
 - Additional metrics
 - Metrics statistical tests

December 2023 TrustyAl 0.4.0

- Storage
 - Wider storage support (database backends)
- Explainers
 - NLP explainability suppor
- Metrics
 - Support for user-defined historical windows