



Application Layer

Model Serving and REST API

Agentic Interface and MCP Integration



Reader

Filesystems

- Local Reading
- Cloud Reading

Data Handling

- Agnostic Backend
- Tabular and Parquet Data
- Metadata



Data Engine

Filtering

Splitting

- Ordering (Temporal/Random)
- Strategy (Holdout/Leave-k-out)
- Cross Validation

Dataset

- Interaction Handler
- Session Handler
- Context Handler
- Data Alignment
- Training Structures
- Eval. Structures



Recommendation Engine

Trainer

- MLOps
- Carbon Footprint
- Cluster Resource

Models

- Collaborative Filt.
- Sequential
- Context-aware
- Content-based
- Hybrid



Evaluation

Evaluator

Metrics

- Accuracy
- Coverage
- Bias
- Diversity
- Fairness
- Novelty
- Rating

Statistical Tests

- Paired Tests
- Statistical Corrections



Writer

Filesystems

- Local Writing
- Cloud Writing

HPO Results

- Eval. Results
- Best Parameters
- Time Reports
- Statist. Significance
- Checkpointing
- Train Logging

Carbon Footprint & Green AI Profiling