

## Dataset Management

### Metadata Requirements:

To maximize dataset sharing and usability, metadata should include the following fields and be provided in machine-readable formats such as JSON/XML/CSV:

- (1) Group
- (2) Name
- (3) Description
- (4) Creation time
- (5) Sharing scope and access method (e.g., no application, requires approval, downloadable, VPN-only)
- (6) Tags
- (7) Creator
- (8) Others: e.g., privacy information, file size and type, data labeling details

### FAIR Principles:

Datasets should follow FAIR principles (Findable, Accessible, Interoperable, Reusable):

- **Findable**: Include tags and indexing information for searchability.
- **Accessible**: Data can be accessed via API. Sensitive data requires a token.
- **Interoperable**: Use standard vocabularies and formats; ontology recommended (e.g., SNOMED CT).
- **Reusable**: Clearly describe data license and source.

## Model Management

### Model Metadata Requirements:

Models should be uploaded with metadata in machine-readable formats and include:

- (1) Group: AI model
- (2) Name
- (3) Description

- (4) Creation time
- (5) License type
- (6) Tags
- (7) Creator
- (8) Framework and version
- (9) Training dataset name, source, size, environment, results
- (10) Testing dataset details; include platform links if available

#### Model Testing:

Before upload, models must be tested and results submitted in CSV format, including:

- Testing data source
- Computation resources used (CPU/GPU, memory, storage)
- Usage methods (inference code, evaluation scripts)
- Expected results (e.g., accuracy, F1 score)

#### Model Performance Metrics:

Optional additional evaluation using separate training/testing sets, ensuring consistent data distribution.

Report should include:

- Source of training/testing data
- Data format and size
- Computational resource usage
- Expected results: type, output format, execution time, metrics (e.g., accuracy, precision)