

Here is the generated checklist in Markdown format:

Configuration Management

Is the configuration management process applied to the AI/ML constituent life-cycle data?

Yes

- Are all configuration items identified? | * Is versioning used for the AI/ML constituent? | * Is baselining used for the AI/ML constituent? | * Is change control in place for the AI/ML constituent? | * Is reproducibility ensured for the AI/ML constituent? | * Are problem reports generated and tracked for the AI/ML constituent? | * Is archiving and retrieval implemented for the AI/ML constituent data? | * Is a retention period defined for the AI/ML constituent data?

Quality and Process Assurance

Are quality and process assurance principles applied to the development of the AI-based system?

Yes

- Are the life-cycle process objectives met or addressed deviations documented? | * Are activities completed as outlined in plans (as per Objective DA-01)? | * Is independence level required for the AI/ML constituent?

Reuse of AI/ML Models

Is reuse of AI/ML models considered for the AI-based system?

Yes

- Are open source models or COTS ML models incorporated into the design? | * Is adaptation to OD and/or ODD required for reused ML models? | * Are data quality issues addressed when reusing ML models? | * Is change management in place for reused ML models? | * Is development explainability ensured for reused ML models? | * Is scalability considered when reusing ML models?

Data Management

Are the following activities completed for data management?

Yes

- Are data management requirements captured? | * Is data collection and preparation performed? | * Are data sets used in the learning phase identified (training, validation, test)? | * Are data set verifications conducted (accuracy, completeness, representativeness)? | * Are independence requirements between data sets ensured? | *

Is unwanted bias eliminated from the data sets?

Please note that this is a low-level checklist with granular details.