

Here is the checklist for the author and reviewer:

Capture of AI/ML Constituent Requirements

- Is there a clear definition of the ConOps and OD?
 - ☐ YES / NO
- Have all necessary requirements been captured for the AI/ML constituent?
 - ☐ YES / NO
- Are safety requirements allocated to the AI/ML constituent?
 - ☐ YES / NO
- Are information security requirements allocated to the AI/ML constituent?
 - ☐ YES / NO
- Are functional requirements allocated to the AI/ML constituent?
 - ☐ YES / NO
- Are operational requirements allocated to the AI/ML constituent, including ODD monitoring and performance monitoring?
 - ☐ YES / NO
- Are non-functional requirements allocated to the AI/ML constituent (e.g. scalability)?
 - ☐ YES / NO
- Are interface requirements defined?
 - ☐ YES / NO

Configuration Management

- Is configuration management applied to the AI/ML constituent life-cycle data?
 - ☐ YES / NO
- Are configuration items identified?
 - ☐ YES / NO
- Is versioning implemented?
 - ☐ YES / NO

- Is baselining performed?
 - ☐ YES / NO
- Is change control in place?
 - ☐ YES / NO
- Is reproducibility ensured?
 - ☐ YES / NO
- Are problem reports generated and tracked?
 - ☐ YES / NO
- Is archiving and retrieval, as well as retention period, defined?
 - ☐ YES / NO

Quality and Process Assurance

- Is quality and process assurance applied to the development of the AI-based system?
 - ☐ YES / NO
- Is independence ensured for the quality and process assurance activities?
 - ☐ YES / NO

Reuse of AI/ML Models

- Has an initial set of applications been approved or certified, and introduced into operations?
 - ☐ YES / NO
- Are previously developed AI/ML constituents or ML models being replaced or modified?
 - ☐ YES / NO
- Is OD and/or ODD adaptation necessary for reused ML models?
 - ☐ YES / NO
- Is data quality ensured for reused ML models?
 - ☐ YES / NO
- Are change management processes in place for reused ML models?
 - ☐ YES / NO

- Is development explainability ensured for reused ML models?

☐ YES / NO

- Is scalability considered for reused ML models?

☐ YES / NO