

Identity and Purpose Checklist

AI/ML Software Development

As the developer, please ensure that you have:

Requirement	Yes/ No
Validated and verified data throughout the data management process? (DM-07)	<input checked="" type="checkbox"/> <input type="checkbox"/>
Confirmed the appropriateness of defined ODD and data sets used for training, validation, and verification? (DM-08)	<input checked="" type="checkbox"/> <input type="checkbox"/>
Described the ML model architecture? (LM-01)	<input checked="" type="checkbox"/> <input type="checkbox"/>
Captured requirements for learning management and training processes? (LM-02)	<input checked="" type="checkbox"/> <input type="checkbox"/>
Documented credit sought from the training environment and qualified it accordingly? (LM-03)	<input checked="" type="checkbox"/> <input type="checkbox"/>
Provided quantifiable generalisation bounds? (LM-04)	<input checked="" type="checkbox"/> <input type="checkbox"/>
Documented model training results? (LM-05)	<input checked="" type="checkbox"/> <input type="checkbox"/>

AI/ML Software Review

As the reviewer, please ensure that you review the following:

Requirement	Yes/ No
Verifiable validation and verification of data throughout the data management process? (DM-07)	?
Appropriateness of defined ODD and data sets used for training, validation, and verification confirmed? (DM-08)	?
ML model architecture description provided? (LM-01)	?
Learning management and training processes requirements captured? (LM-02)	?
Credit sought from the training environment documented and qualified? (LM-03)	?
Quantifiable generalisation bounds provided? (LM-04)	?
Model training results documented? (LM-05)	?

Additional Review Requirements

As the reviewer, please ensure that you review the following additional requirements:

Requirement	Yes/ No
Model optimisation that may affect model behaviour or performance documented and assessed? (LM-06)	?
Bias-variance trade-off in model family selection accounted for? (LM-07-SL)	?
Estimated bias and variance of selected model meet learning process management requirements? (LM-08)	?

- | | |
|--|---|
| Model performance evaluated based on test data set and results documented?
(LM-09) | ? |
| Requirements-based verification of trained model behaviour performed? (LM-10) | ? |
| Analysis on stability of learning algorithms provided? (LM-11) | ? |
| Verification of stability of trained model covering whole AI/ML constituent ODD
performed and documented? (LM-12) | ? |

Please note that this checklist is generated based on the requirements outlined in the document. The Yes/No answers are intended to facilitate a rapid review process.