Identity and Purpose Checklist

Data Management (DM)

Validation and Verification of Data

- Has the applicant validated and verified the data throughout the data management process? [YES/NO]
- Are the data management requirements addressed? [YES/NO]

Data Verification Step

• Is a data verification step performed to confirm the appropriateness of the defined ODD and data sets used for training, validation, and verification? [YES/NO]

Machine Learning (LM)

captured? [VFC/NO]

ML Model Architecture

• Is the ML model architecture described? [YES/NO]

Learning Management and Training Processes

captured: [1E6/140]
○ Model family and model selection: [YES/NO]
○ Learning algorithm(s) selection: [YES/NO]
Explainability capabilities of the selected model: [YES/NO]
○ Activation functions: [YES/NO]
O Cost/loss function selection describing the link to performance metrics: [YES/
NO]
○ Model bias and variance metrics and acceptable levels: [YES/NO]
○ Model robustness and stability metrics and acceptable levels: [YES/NO]
○ Training environment (hardware and software) identification: [YES/NO]
○ Model parameters initialisation strategy: [YES/NO]
O Hyper-parameters identification and setting: [YES/NO]

O Expected performance with training, validation, and test sets: [YES/NO]

• Are the requirements pertaining to learning management and training processes

Credit Sought from Training Environment

• Is the credit sought from the training environment documented? [YES/NO]

Quantifiable Generalisation Bounds

• Are quantifiable generalisation bounds provided? [YES/NO]

Model Training Documentation

• Is the result of model training documented? [YES/NO]

Model Optimisation and Its Impact

• Is any model optimisation (e.g. pruning, quantization) documented, and its impact on model behavior or performance assessed? **[YES/NO]**

Reviewer Checklist

Data Management (DM)

- Has the applicant validated and verified the data throughout the data management process? **[YES/NO]**
- Are the data management requirements addressed? [YES/NO]
- Is a data verification step performed to confirm the appropriateness of the defined ODD and data sets used for training, validation, and verification? [YES/NO]

Machine Learning (LM)

- Is the ML model architecture described? [YES/NO]
- Are the learning management and training processes requirements captured? [YES/NO]

\bigcirc	Model family and model selection: [YES/NO]
\bigcirc	Learning algorithm(s) selection: [YES/NO]
\bigcirc	Explainability capabilities of the selected model: [YES/NO]
\bigcirc	Activation functions: [YES/NO]
\bigcirc	Cost/loss function selection describing the link to performance metrics: [YES
	NO]
\bigcirc	Model bias and variance metrics and acceptable levels: [YES/NO]
\bigcirc	Model robustness and stability metrics and acceptable levels: [YES/NO]
\bigcirc	Training environment (hardware and software) identification: [YES/NO]
\bigcirc	Model parameters initialisation strategy: [YES/NO]
\bigcirc	Hyper-parameters identification and setting: [YES/NO]
\bigcirc	Expected performance with training, validation, and test sets: [YES/NO]

Additional Requirements

- Is the bias-variance trade-off in model family selection accounted for? [YES/NO]
- Are quantifiable generalisation bounds provided? [YES/NO]
- Is the result of model training documented? **[YES/NO]**
- Is any model optimisation (e.g. pruning, quantization) documented, and its impact on model behavior or performance assessed? **[YES/NO]**