Here is the generated checklist in Markdown format:

AI/ML Model Development Checklist

Assurance Level 1 (DAL A)

Data Management

- Have you ensured validation and verification of data throughout the process? [YES/NO]
- O Have you performed a data verification step to confirm the appropriateness of defined ODD and data sets used for training, validation, and verification of the ML model? [YES/NO]

Model Architecture

○ Have you described the ML model architecture? [YES/NO]

Learning Management

- O Have you captured requirements pertaining to learning management and training processes, including:
 - Model family and selection? [YES/NO]
 - Learning algorithm(s) selection? [YES/NO]
 - Explainability capabilities of the selected model? [YES/NO]
 - Activation functions? [YES/NO]
 - Cost/loss function selection describing 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]
 - Hyper-parameters identification and setting? [YES/NO]
 - Expected performance with training, validation, and test sets? [YES/NO]

Assurance Level 2 (DAL B)

Model Training

- O Have you documented the credit sought from the training environment and qualified the environment accordingly? [YES/NO]
- O Have you provided quantifiable generalisation bounds? [YES/NO]

Model Optimisation

O Have you documented any model optimisation that may affect the model behavior (e.g. pruning, quantization) and assessed their impact on the model behavior or performance? [YES/NO]

Assurance Level 3 (DAL C)

· Bias-Variance Trade-off

\bigcirc	Have you accounted for bias-variance	e trade-off in	the model	family	selection
	[YES/NO]				

○ Has evidence of reproducibility of the model training process been provided? [YES/NO]

· Model Verification

- O Have you performed an evaluation of the performance of the trained model based on test data set and documented the result of the model verification? [YES/NO]
- O Have you performed requirements-based verification of the trained model behavior? [YES/NO]

Assurance Level 4 (DAL D)

Stability Analysis

- O Has an analysis been performed on the stability of learning algorithms? [YES/NO]
- O Has the verification of the stability of the trained model covering the whole AI/ML constituent ODD been performed and documented? [YES/NO]

Please note that this checklist is generated based on the provided text and may require further clarification or modification depending on specific requirements.