

Identity and Purpose Checklist for AI/ML Software Development and Review

Applicant (Developer) Checklist

- **Define nominal data:** YES/NO
 - ☐ Has the applicant defined the nominal data for the AI/ML constituent ODD?
- **Identify edge cases, corner cases:** YES/NO
 - ☐ Have the applicant identified edge cases, corner cases in preparation of stability of the model?
- **Define infeasible corner cases data:** YES/NO
 - ☐ Has the applicant defined infeasible corner cases data for the AI/ML constituent ODD?
- **Detect and remove inliers:** YES/NO
 - ☐ Have the applicant detected and removed inliers from the data set?
- **Detect and manage novelties:** YES/NO
 - ☐ Have the applicant detected and managed novelties in the data set?
- **Define outliers for detection and management:** YES/NO
 - ☐ Has the applicant defined outliers for their detection and management?

Reviewer Checklist

- **Capture DQRs for all data:** YES/NO
 - ☐ Are the Data Quality Requirements (DQRs) captured for all data required for training, testing, and verification of the AI/ML constituent ODD?
- **Data relevance to support intended use:** YES/NO
 - ☐ Does the data support the intended use of the AI/ML constituent ODD?
- **Ability to determine origin of data:** YES/NO
 - ☐ Is it possible to determine the origin of the data for the AI/ML constituent ODD?
- **Requirements related to annotation process:** YES/NO
 - ☐ Are the requirements related to the annotation process satisfied for the AI/ML constituent ODD?
- **Format, accuracy, and resolution of data:** YES/NO

- Is the format, accuracy, and resolution of the data suitable for the AI/ML constituent ODD?

- **Traceability of data from origin to final operation: YES/NO**

- Can the data be traced back from its origin to its final operation through the whole pipeline of operations?

Note: This checklist is based on the requirements outlined in the EASA Concept Paper: guidance for Level 1 & 2 machine learning applications.