Here is the generated checklist:

Data Management Checklist

Data Management Requirements Capture

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Have all data management requirements been captured?
○ [Yes/No]
 Are all data management requirements documented and available for review?
○ [Yes/No]
Data Collection
Has data collection been performed for each individual data point?
○ [Yes/No]
• Is the collected data relevant to the ML model's objectives?
○ [Yes/No]
Data Labelling (only in supervised learning)
• Has data labelling been performed for all training, validation, and test datasets?
○ [Yes/No]
 Are the labels accurate and consistent across all datasets?
○ [Yes/No]
Data Preparation
 Has pre-processing, data transformation, and feature engineering been applied to the data?
○ [Yes/No]
• Is the prepared data relevant and suitable for the ML model's objectives?
○ [Yes/No]
Identification of Data Sets

Ide

• Have the various datasets (training, validation, test) been identified and documented?

O [Yes/No]

• Are the datasets accurate and consistent across all phases of the project lifecycle?

○ [Yes/No]
Data Set Verification
 Has data set verification been performed for accuracy, completeness, and representativeness?
○ [Yes/No]
 Are the verified datasets suitable for the ML model's objectives?
○ [Yes/No]
Independence Requirements between Data Sets
 Have independence requirements been met between the training, validation, and test datasets?
○ [Yes/No]
• Are the independent datasets suitable for the ML model's objectives?
○ [Yes/No]
Identification and Elimination of Unwanted Bias
• Has unwanted bias inherent to the datasets been identified and eliminated?
○ [Yes/No]
 Are the bias-free datasets suitable for the ML model's objectives?

Note: This checklist is intended to be used by both the author developing the AI-Machine Learning software and the reviewer reviewing it.

O [Yes/No]