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Artificial intelligence — Data quality for analytics and machine learning (ML) —

Part 5: Data quality governance framework

Intelligence artificielle — Qualité des données pour les analyses de données et l'apprentissage automatique —

Partie 5: Cadre pour la gouvernance de qualité des données

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Contents

Page

Foreword ... **iv**
Introduction ... **v**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **1**
4 Abbreviated terms ... **3**
5 Data quality governance in the context of analytics and ML ... **4**
5.1 Foundation ... 4
5.2 Ambiguous responsibilities for data ... 4
5.3 Purpose and justification ... 4
6 Data quality governance framework ... **5**
6.1 General ... 5
6.2 DQ guiding principles ... 6
6.3 Strategies and policies for DQ ... 6
6.4 Business planning for DQ ... 6
6.5 DQ accountabilities ... 7
6.6 DQ risk management ... 7
6.7 Management processes for DQ ... 7
7 Responsibilities of governing body ... **8**
7.1 Understand the strategic importance of data quality ... 8
7.2 Establish enabling environment for data quality governance ... 8
7.3 Formulate data quality strategies ... 9
7.4 Business planning for data quality ... 10
7.5 Data quality risk management capability ... 10
7.6 Set policies to ensure data quality ... 10
7.7 Establish oversight mechanisms ... 12
8 Responsibilities of management ... **12**
8.1 Implement data quality strategies ... 12
8.2 Establish and enforce comprehensive data quality policies ... 12
8.3 Implement data quality management processes ... 12
8.4 Establishing internal risk control as part of management process ... 13
Bibliography ... **15**

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Foreword

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This document was prepared by Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 42, *Artificial intelligence*.

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Introduction

To address data quality properly without wasting critical resources, the organization's governing body can set the strategic direction for the use of analytics and machine learning (ML) and can oversee the quality of the needed data.

The data quality governance framework for analytics and ML assists the governing body in establishing a data quality governance within its organization with adequate controls across different layers of the organization throughout the data life cycle (DLC).

The framework can be used by both the governing body and management to interact and ensure the establishment of an effective data quality governance for analytics and ML at all levels in the organization.

The framework can be applicable regardless of an organization's size and type; and used in conjunction with other parts of the ISO/IEC 5259 series.

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Artificial intelligence — Data quality for analytics and machine learning (ML) —

Part 5:
Data quality governance framework

1 Scope

This document provides a data quality governance framework for analytics and machine learning (ML) to enable governing bodies of organizations to direct and oversee the implementation and operation of data quality measures, management, and related processes with adequate controls throughout the data life cycle (DLC) model according to ISO/IEC 5259-1.

This document can be applied to any analytics and ML. This document does not define specific management requirements or process requirements according to ISO/IEC 5259-3 and ISO/IEC 5259-4 respectively.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 5259-1, *Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 1: Overview, terminology, and examples*

ISO/IEC 22989:2022, *Information technology — Artificial intelligence — Artificial intelligence concepts and terminology*

ISO/IEC 38505-1, *Information technology — Governance of IT — Governance of data — Part 1: Application of ISO/IEC 38500 to the governance of data*

ISO/IEC 38507:2022, *Information technology — Governance of IT — Governance implications of the use of artificial intelligence by organizations*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 5259-1, ISO/IEC 22989, ISO/IEC 38505-1 and ISO/IEC 38507, and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
data creator
role within an organization responsible for generating, collecting and curating data from data sources

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