BUREAU OF INDIAN STANDARDS
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मसौदा भारतीय मानक

सूचना प्रौद्योगिकी — कृत्रिम बुद्धिमत्ता (एआई) —

वर्गीकरण और प्रतिगमन मशीन लर्निंग कार्यों में अवांछित पूर्वाग्रह का उपचार

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Draft Indian Standard
Information technology —
Artificial intelligence (AI) —
Treatment of unwanted bias in classification and regression machine learning tasks

ICS 35.020

Artificial Intelligence Sectional Committee, LITD 30	Last Date for Comments: 30 Nov 2025

NATIONAL FOREWORD

(Formal clauses will be added later)

This draft Indian Standard which is identical to 'ISO/IEC TS 12791: 2024 Information technology — Artificial intelligence — Treatment of unwanted bias in classification and regression machine learning tasks.' issued by the International Organization Standardization

(ISO) and International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards (BIS) on the recommendations of the Artificial Intelligence Sectional Committee and approval of the Electronics and Information Technology Division Council.

The text of ISO/IEC Standard may be approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard', and

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International Standards	Corresponding Indian Standard	Degree of Equivalence
ISO/IEC 5259-4: 2024, Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 4: Data quality process framework	IS/ISO/IEC 5259-4: 2024, Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 4: Data quality process framework	Identical with ISO/IEC 5259-4: 2024
ISO/IEC 22989:2022, Information technology — Artificial intelligence — Artificial intelligence concepts and terminology	IS/ISO/IEC 22989 : 2022 Information Technology - Artificial Intelligence - Artificial Intelligence Concepts and Terminology	Identical with ISO/IEC 22989: 2022
ISO/IEC/IEEE 29119-3:2021, Software and systems engineering — Software testing — Part 3: Test documentation	IS 11291 (Part 3):2023 ISO/IEC/IEEE 29119-3:2021 Software and systems engineering — Software testing — Part 3: Test documentation	Identical with ISO/IEC/IEEE 29119-3: 2021

Scope of ISO/IEC TS 12791: 2024 is as follows:

"This document describes how to address unwanted bias in AI systems that use machine learning to conduct classification and regression tasks. This document provides mitigation techniques that can be applied throughout the AI system life cycle in order to treat unwanted bias. This document is applicable to all types and sizes of organization."

Note: - The Technical content of this document has not been enclosed as these are identical with the corresponding ISO/IEC Standard. For details please refer to ISO/IEC TS 12791: 2024 or kindly contact

Head,
Electronics & IT Department
Bureau of Indian Standards
9, B.S. Zafar Marg, New Delhi-110002
Email: hlitd@bis.gov.in, litd30@bis.gov.in
Telephone: 011-23608450