

DERIVING AN INCLUSIVITY RISK INDEX FOR AI-DRIVEN E-LEARNING INTERFACES USING INTERACTION-LEVEL FEATURES

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Artificial intelligence (AI)-driven e-learning platforms increasingly rely on adaptive and interactive interfaces, which may unintentionally reduce inclusivity for diverse learners. This paper addresses the lack of interaction-level metrics for assessing inclusivity risks in such systems. A lightweight metric, termed the Inclusivity Risk Index (IRI), is proposed using observable interface features: dynamic elements, interaction depth, personalization reliance, and interface complexity. The IRI is applied to five widely used AI-supported e-learning platforms to enable comparative analysis. Results reveal noticeable differences in inclusivity risk, with interface complexity emerging as the dominant contributing factor. The study contributes a transparent and reproducible metric for evaluating inclusivity in AI-driven interfaces without requiring access to system internals.
