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Sommario/riassunto	This book presents the select proceedings of the 4th Biennial International Conference on Future Learning Aspects for Mechanical

Engineering (FLAME 2024). It covers the applications of machine learning (ML) and artificial intelligence (AI) in the development of smart systems, with a particular focus on engineering and healthcare applications. It provides a comprehensive overview of state-of-the-art techniques, methodologies, and practical implementations of ML and AI to address complex problems in these domains. The book covers theoretical foundations, recent advancements, and case studies demonstrating the impact of smart systems on improving efficiency, accuracy, and overall performance in engineering and healthcare and many other multidisciplinary fields of mechanical engineering. This book will be useful for scientists, engineers, researchers and professionals working in the allied fields of machine learning and artificial intelligence. .