

Preface

The transformation of higher education is being accelerated by the integration of Artificial Intelligence (AI), Machine Learning (ML), and Cloud Computing. This book, *Artificial Intelligence, Machine Learning, and Cloud Computing in Higher Education: Intelligent Learning Systems, Analytics, and Digital Transformation*, presents a comprehensive perspective on how these technologies are reshaping academic environments. It explores the development of intelligent learning systems, personalized education, and data-driven decision-making enabled by advanced analytics. The chapters in this volume highlight practical applications, including adaptive learning platforms, predictive models for student success, and cloud-based infrastructures that enhance scalability and accessibility. At the same time, the book addresses critical concerns such as data privacy, ethical implications, and digital inclusion. By combining theoretical insights with real-world case studies, this work aims to support educators, researchers, and policymakers in leveraging emerging technologies to create innovative, efficient, and sustainable higher education systems.