

# **Artificial Intelligence, Machine Learning, and Cloud Computing in Higher Education: Intelligent Learning Systems, Analytics, and Digital Transformation**

<b>Chapter</b>	<b>Title</b>	<b>Page No.</b>
1	Future Directions of Artificial Intelligence, Machine Learning, and Cloud Computing in Intelligent Higher Education Ecosystems	15
2	Generative AI and ChatGPT Applications for Intelligent Learning in Higher Education	45
3	Cloud-Enabled Virtual and Remote Learning Environments in Higher Education	72
4	Cloud Computing for Scalable Online Learning and Massive Open Online Courses (MOOCs)	101
5	Cloud-Based Smart Classroom Technologies for Modern Higher Education	129
6	AI-Powered Intelligent Tutoring Systems for Enhancing Student Engagement in Higher Education	157
7	Learning Analytics and Artificial Intelligence for Adaptive Curriculum Development in Higher Education	186
8	Hybrid Artificial Intelligence Models for Academic Performance Prediction in Higher Education	215
9	Cloud-Based AI Systems for Real-Time Academic Performance Monitoring in Higher Education	244
10	AI-Enabled Career Prediction and Skill Mapping Systems for Higher Education Students	273
11	AI and Cloud Computing for Smart Examination and Evaluation Systems in Higher Education	302
12	Artificial Intelligence and Machine Learning Techniques for Automated Assessment and Evaluation Systems	331
13	Deep Learning Applications for Intelligent Assessment and Feedback Systems in Higher Education	360

14	AI-Powered Chatbots and Virtual Assistants for Student Support Services in Higher Education	388
15	AI-Based Decision Support Systems for Strategic Management in Higher Education Institutions	418
16	AI-Driven Analytics for Evaluating Teacher Performance and Teaching Effectiveness in Higher Education	447
17	Artificial Intelligence and Machine Learning Approaches for Monitoring and Managing Teacher Stress in Higher Education Institutions	476
18	Cloud-Based AI Systems for Assessing Teacher Performance, Workload, and Stress in Higher Education	505
19	Ethical, Privacy, and Governance Issues of AI and Cloud Technologies in Higher Education	536
20	Security, Privacy, and Ethical Issues in Cloud-Based Higher Education Systems	566