Preface

The edited volume "Artificial Intelligence and IoT-Driven Predictive Models for Next-Generation Healthcare Systems" presents a comprehensive exploration of how cutting-edge technologies are transforming the modern healthcare landscape. This book bridges the gap between data-driven intelligence and connected medical ecosystems, highlighting innovative methodologies that enable predictive diagnostics, personalized treatment, and efficient healthcare management. By integrating Artificial Intelligence (AI) with the Internet of Things (IoT), the chapters emphasize intelligent data collection, real-time monitoring, and automated decision-making to improve patient outcomes and system efficiency. Each contribution provides in-depth insights into emerging frameworks, algorithms, and applications that define the next era of healthcare innovation. This volume serves as a valuable reference for researchers, practitioners, and academicians aiming to understand and apply AI-IoT convergence in predictive healthcare models for smarter, more resilient medical infrastructures.