

# **The Impact of Artificial Intelligence and Blockchain on Modern Accounting**

**Ms Pooum S Raibagi<sup>1</sup> and Yashaswini S V<sup>2</sup>**

Faculty of Commerce, School of Economics and Commerce, CMR University, Bangalore<sup>1</sup>

Students, School of Economics and Commerce, CMR University, Bangalore<sup>2</sup>

**Abstract:** *The convergence of Artificial Intelligence (AI) and Blockchain technology is revolutionizing the landscape of modern accounting. This paper provides a comprehensive analysis of how these disruptive technologies are transforming traditional accounting practices by automating tasks, enhancing transparency, and improving data security. AI offers unprecedented efficiency in managing large datasets, performing predictive analysis, and streamlining auditing processes. Meanwhile, Blockchain ensures tamper-proof records, fosters trust through decentralization, and enables real-time reporting and verification of transactions. This research examines the synergy of AI and Blockchain in addressing major challenges in the accounting profession, such as fraud detection, compliance, and decision-making. Using a qualitative approach, the study synthesizes insights from a wide range of scholarly articles, industry reports, and case studies. It also explores the limitations and risks associated with technology adoption, including regulatory concerns, integration costs, and the skills gap in the workforce. The findings suggest that while AI and Blockchain present transformative opportunities, their successful implementation requires strategic planning, investment in digital infrastructure, and ongoing education for accounting professionals. The paper concludes by offering practical recommendations for firms looking to integrate these technologies into their accounting systems. As the accounting profession evolves, embracing AI and Blockchain will be essential for ensuring relevance, accuracy, and efficiency in the digital age.*

**Keywords:** Artificial Intelligence (AI), Blockchain, Accounting Technology, Audit Automation, Predictive Analytics Data Security, Fraud Detection, Compliance, Transparency, Financial Reporting, Decentralization, Real-time Verification, Digital Transformation, Accounting Innovation & Decision-making Tools

