

Chapter 16

Exploring the Intersection of AI and Financial Literacy: Current Insights, Hurdles, and Prospects

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ABSTRACT

Within the evolving landscape of artificial intelligence (AI), the significance of financial literacy remains paramount for individual and societal prosperity, impacting not only financial decision-making but also economic resilience and equitable access to opportunities. This chapter conducts a thorough examination of the intersection between AI and financial literacy, amalgamating insights from scholarly works, empirical investigations, and applied endeavors. It delves into fundamental concepts, evaluative frameworks, influential factors, and resultant ramifications of AI-driven financial literacy. Furthermore, it scrutinizes AI-enabled interventions, hurdles encountered, and prospects on the horizon within this domain. By consolidating existing insights and pinpointing areas necessitating further exploration, this review aspires to furnish policymakers, educators, and practitioners with actionable insights to propel financial literacy initiatives imbued with AI advancements, fostering inclusive financial well-being.

INTRODUCTION

In the era of artificial intelligence (AI), the significance of financial literacy transcends traditional boundaries, emerging as a cornerstone for individuals to adeptly navigate their financial landscapes. Beyond a mere comprehension of basic financial principles, financial literacy in the age of AI encompasses a comprehensive range of knowledge and competencies essential for understanding and leveraging the intricacies of AI-driven financial tools and systems. This includes a sophisticated understanding of con-

DOI: 10.4018/979-8-3693-5593-0.ch016

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cepts such as algorithmic budgeting, AI-powered investment strategies, automated debt management, and predictive financial planning Gale, W. G., & Levine, R. (2011).

Indeed, financial literacy in the AI era is not merely about managing personal finances; it is about embracing a new paradigm of economic participation and societal empowerment. Empowered with AI-driven financial knowledge, individuals are equipped to unlock the full potential of AI-driven financial innovations, thereby transcending traditional limitations and achieving their financial objectives with newfound precision and confidence Lusardi, A., & Mitchell, O. S. (2011). Whether it's leveraging AI algorithms to optimize investment portfolios or utilizing predictive analytics to navigate volatile market conditions, financially literate individuals in the AI era possess the skills, awareness, and behaviors necessary to harness AI technologies for making informed decisions about their finances Awasthi, S. (2023).

Moreover, the impact of AI-augmented financial literacy extends far beyond individual prosperity, permeating into the very fabric of societal well-being and economic advancement. By embracing AI-driven financial innovations, individuals can not only mitigate risks and adapt to dynamic economic conditions but also contribute to broader societal benefits Mandell, L., & Klein, L. S. (2009). AI-enhanced financial literacy serves as a catalyst for fostering financial stability, driving economic growth through the proliferation of AI-enabled entrepreneurship, and promoting social equity by democratizing access to AI-powered financial services. Furthermore, by leveraging AI-driven resource allocation and investment decisions, financially literate individuals can actively contribute to environmental sustainability, thereby advancing the collective interests of society as a whole Joglekar, S. T.

In essence, financial literacy in the age of AI represents a transformative force with the potential to reshape the economic landscape and redefine the very notion of financial empowerment. By embracing AI-driven financial literacy, individuals are not only equipped to navigate the complexities of the modern financial world but also empowered to drive positive change and foster inclusive prosperity for generations to come Koskelainen, T., Kalmi, P., Scornavacca, E., & Vartiainen, T. (2023).

The significance of financial literacy in the AI era is underscored by several factors:

1. **Navigating AI-Powered Financial Systems:** In today's AI-driven financial ecosystem, individuals encounter a plethora of AI-powered solutions for banking, investments, insurance, and retirement planning. Financial literacy augmented with AI knowledge equips them to navigate and leverage these complex systems effectively.
2. **Empowering Individuals with AI:** Financial literacy augmented with AI empowers individuals to take charge of their financial futures by harnessing AI algorithms for personalized financial planning, risk management, and wealth accumulation strategies tailored to their unique circumstances Miu, C., Gopurathingal, J., Thota, V., Thompson, M., van Beek, N., Kuczynski, J., ... & Iqbal, T. (2022, April).
3. **Safeguarding Against AI-Related Financial Risks:** With the proliferation of AI-driven financial products and services, individuals face risks such as algorithmic bias, data privacy concerns, and AI-driven fraud. Financial literacy augmented with AI awareness enables individuals to recognize and mitigate these risks effectively.
4. **Fostering AI-Enabled Citizenship:** Financial literacy augmented with AI knowledge fosters responsible citizenship by enabling individuals to engage meaningfully with AI-driven financial

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