

GAMIFYING ETHICAL ENTREPRENEURSHIP: THE ROLE OF AI in ISLAMIC FINANCE

ETİK GİRİŞİMCİLİĞİN OYUNLAŞTIRILMASI: İSLAMİ FİNANSTA YAPAY ZEKÂNIN ROLÜ

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ABSTRACT

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The convergence of gamification, entrepreneurship, and Islamic finance offers a unique opportunity to foster an inclusive and sustainable economic ecosystem. This study explores the synergies between these domains and the role of artificial intelligence (AI) in driving this transformation. Gamification enhances entrepreneurial endeavours by creating immersive and engaging experiences that stimulate creativity, motivation, and problem-solving abilities. Techniques such as challenges, rewards, and feedback motivate entrepreneurs to overcome obstacles and achieve their goals efficiently. Islamic finance, emphasizing ethical and fair financial transactions, complements gamification in entrepreneurship. Gamification engages entrepreneurs with Sharia-compliant products and services, promoting financial inclusion and understanding of Islamic finance concepts through interactive simulations and platforms. The synergistic interplay of gamification, entrepreneurship, Islamic finance, and technopreneurship, supported by AI, promises to create a more inclusive, ethical, and sustainable economic landscape. As the financial industry evolves, gamification empowers entrepreneurs to navigate complexities, create social impact, and uncover new opportunities in the digital economy.

ÖZ

Oyunlaştırma, girişimcilik ve İslami Finansın bir araya gelmesi ile daha kapsayıcı ve sürdürülebilir ekonomik bir ekosistem için önemli fırsatları bünyesinde barındırmaktadır. Bu çalışma, oyunlaştırma, girişimcilik ve İslami finansın keşimini ve yapay zekanın (YZ) bu dönüşümdeki rolünü incelemektedir. Oyunlaştırma, girişimcilik faaliyetlerini yaratıcı, motive edici ve problem çözüme yeteneklerini artırarak daha sürükleyici ve etkileyici hale getirir. Zorluklar, ödüller ve geri bildirimler gibi teknikler, girişimcilerin engelleri aşmasını ve hedeflerine verimli bir şekilde ulaşmasını sağlar. İslami finansın temel ilkeleri etik ve adil finansal işlemlerin önemini vurgulayarak, girişimcilik ile birlikte oyunlaştırma için fırsatlar sunar. Oyunlaştırma, Şeriat uyumlu ürünler ve hizmetler ile girişimcileri etkileşime geçirir, finansal kapsayıcılığı teşvik eder ve İslami finansın temel kontlarını interaktif simülasyonlar ve platformlar aracılığıyla anlaşılmasını sağlar. Oyunlaştırma, girişimcilik, İslami finans ve teknolojik girişimciliğin yapay zeka desteğiyle sinerjik etkileşimi, daha kapsayıcı, etik ve sürdürülebilir bir ekonomik ekosistem yaratma potansiyeline sahiptir. Finans sektörü evrilirken, oyunlaştırma girişimcilerin karmaşıklıkları yönetmesini, sosyal etki yaratmasını ve dijital ekonomide yeni fırsatlar keşfetmesini sağlar.

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Introduction

The convergence of gamification, entrepreneurship, and Islamic finance presents a unique and largely unexplored opportunity to foster a more inclusive and sustainable economic ecosystem. Despite the rich potential of this intersection, there is a notable gap in the literature, as no existing studies have combined these three domains. This study aims to fill that gap, leveraging technological developments and the transformative influence of artificial intelligence (AI). Financial technologies and the rise of AI has a destructive effect on traditional financial institutions and customer behaviours. On the other hand, gamification, defined as the use of game design elements, principles, and techniques in non-gaming contexts, serves as a powerful tool to engage and motivate individuals to achieve specific goals or objectives. It leverages the psychology of game-playing to make tasks or processes more enjoyable, interactive, and engaging, thereby driving desired behaviours and outcomes. Applied across various fields—education, marketing, employee training, healthcare, and business—gamification enhances engagement, motivation, and performance.

In the dynamic landscape of entrepreneurship, the integration of innovative technologies and strategies is imperative for sustained success and competitive advantage. Among these, gamification and AI emerge as pivotal tools reshaping entrepreneurial processes and strategies. Gamification, characterized by the infusion of game elements into non-game contexts, offers entrepreneurs a multifaceted approach to engage stakeholders and drive desired behaviours. Introducing elements such as competition, rewards, and challenges, gamification fosters heightened engagement among employees, motivating them towards innovative thinking and improved performance. Additionally, gamified training programs effectively develop skills, enabling entrepreneurs and employees to acquire new knowledge and competencies in an engaging and immersive manner.

Beyond internal operations, gamification also presents entrepreneurs with opportunities to enhance customer engagement through loyalty programs, contests, or interactive applications. These strategies increase brand loyalty and drive sales, contributing to the overall success of entrepreneurial ventures. This study aims to explore the synergies between gamification, entrepreneurship, and Islamic finance, underpinned by AI's transformative power. By examining this intersection, we seek to expand future research and provide a framework for leveraging these innovations to create a more inclusive, ethical, and sustainable economic landscape. On the other hand through gamification, we see some mis-uses of technology and destructive side of gamification. In May 2020, oil futures prices dropped sharply, even turning negative. This event attracted many nonprofessional investors to gamified investment platforms like Robinhood. Many of these investors suffered significant losses, buying low and selling even lower. Emergence of AI Tools on financial investments and the role of these tools becoming more complex.

Literature Review

Gamification has emerged as a significant trend across various sectors, including finance, education, and healthcare. It involves applying game-like elements to non-game contexts to enhance engagement, motivation, and behaviour modification. This study explores the intersection of gamification and Islamic finance examining its applications in personal financial management, digital entrepreneurship education, and the broader financial services industry.

Bitrián et al. (2021), investigate the impact of gamification on personal financial management (PFM) apps, utilizing self-determination theory (SDT) and the technology acceptance model (TAM). Their study on users of the Mint app demonstrates that gamification satisfies users' needs for competence and autonomy, thereby enhancing their motivation to use PFM apps. This increased motivation improves users' perceptions of ease of use and usefulness, fostering more favourable attitudes and behavioural intentions towards the apps. The findings suggest that gamification can be a powerful tool for fintech companies aiming to boost user engagement and adoption of PFM apps.

Pal et al. (2021), further explore the role of gamification in financial behavior, focusing on young investors. They examine how gamifying financial apps moderates the relationship between financial attitude (FA), financial self-efficacy (FSE), financial planning activity (FPA), and financial management behavior (FMB). Their results indicate that gamification significantly moderates the influence of FA and FPA on FMB but not FSE. This study highlights the potential of gamification to enhance financial management behaviors among young investors,

suggesting that gamification elements should be tailored to strengthen specific financial attitudes and planning activities.

van der Heide and Želinský (2021), analyse the discourse surrounding the gamification of financial services, particularly focusing on the narratives used by tech writers and consultants. They argue that while gamification is promoted to democratize finance and empower small investors, it often reinforces existing observational boundaries between finance and society. This critical perspective suggests that the promises of gamification in finance may not fully materialize and could instead perpetuate existing power dynamics and exclusions.

Golrang and Safari (2021), explore gamification in donation-based crowdfunding platforms. Using the Mechanics, Dynamics, Aesthetics (MDA) framework, they design a gamified platform to enhance user engagement in crowdfunding campaigns. Their evaluation shows that gamification significantly increases user participation and engagement, demonstrating its potential to improve the effectiveness of crowdfunding platforms in raising funds for charitable projects.

Xin and Ma (2023), explore the application of gamification in online entrepreneurship education. They find that gamifying digital entrepreneurship education significantly influences students' intentions to become digital entrepreneurs. Their study incorporates digital policy cognition and digital entrepreneurial self-efficacy, showing that these factors mediate the relationship between gamification and entrepreneurial intentions. The results underscore the effectiveness of gamification in fostering entrepreneurial skills and intentions among university students, suggesting that educational institutions should integrate gamification into their digital entrepreneurship.

Hamza et al. (2022), examine the impact of gamification on employee behavior within organizations. Their research indicates that gamification enhances intrinsic motivation and organizational engagement, which in turn improves task performance and work quality. They also identify the mediating role of organizational culture between gamification and employee behaviour, highlighting the importance of aligning gamification strategies with cultural values to maximize their effectiveness.

Rabbani et al. (2023), investigate AI's impact on the relationship between innovative financial processes and market share in banks. Utilizing SPSS and SmartPLS for structural equation modeling, the research reveals that while innovative financial processes significantly enhance market share, AI does not significantly moderate this relationship. The study suggests that banking policymakers in Pakistan should focus on system upgrades and AI awareness. Future research is recommended to explore similar models in Islamic and commercial banks for comparative analysis and to include a larger sample size.

The literature on gamification in finance highlights its potential to enhance user engagement, motivation, and behaviour in various financial contexts. From personal financial management and digital entrepreneurship education to broader financial services and organizational applications, gamification presents opportunities to transform how individuals interact with financial tools and services. However, it is crucial to consider the broader implications, including ethical considerations and the potential reinforcement of existing power dynamics. Future research should continue to explore these dimensions and develop strategies to harness the benefits of gamification while mitigating its drawbacks.

Gamification, Entrepreneurship and Islamic Finance

This research explores the integration of gamification, artificial intelligence (AI), and Islamic finance in entrepreneurship, highlighting the alignment of engagement, innovation, and ethical considerations. Grounded in ethical principles, Islamic finance promotes fairness, inclusivity, and responsible business conduct, shaping entrepreneurial practices within its framework. (Rabbani et al. 2023). Gamification and AI offer innovative tools to enhance learning, training, and compliance, while aligning with Islamic values. (Chen et al. 2022). By combining these elements, entrepreneurs can develop business models that prioritize ethical entrepreneurship, foster inclusive growth, and promote social responsibility.

Entrepreneurship, as a catalyst for economic actions and development, increasingly intersects with ethical frameworks that guide business conduct and decision-making. In this context, the integration of gamification, AI, and Islamic finance emerges as a novel approach to entrepreneurship, offering a blend of engagement, innovation, and ethical considerations.

Islamic finance provides a robust ethical framework grounded in principles such as fairness, justice, and responsible business conduct. Entrepreneurs operating within this framework prioritize ethical behaviour, adhering to guidelines that promote social welfare and equitable wealth distribution (Sarac and Hassan 2020). Halal business practices, which ensure products and services align with Islamic values, underscore the ethical considerations inherent in Islamic finance. Moreover, Islamic finance emphasizes social responsibility, encouraging entrepreneurs to engage in philanthropy and contribute positively to their communities.

The integration of gamification, AI, and Islamic finance presents a unique opportunity to cultivate ethical entrepreneurship while fostering innovation and engagement. Gamification introduces game elements into entrepreneurial processes, enhancing engagement and motivation while facilitating learning and training about Islamic economics principles and ethical practices (Kaoud and ElBolok 2023). AI, on the other hand, offers sophisticated tools for data analysis and compliance monitoring, ensuring adherence to Shariah principles and mitigating the risk of unintentional violations in financial transactions. Additionally, AI can aid in designing inclusive financial products that adhere to Islamic finance principles, thereby promoting financial inclusion and accessibility (Khan and Rabbani 2021).

The integration of gamification, AI, and Islamic economics in entrepreneurship offers a holistic approach that balances engagement, innovation, and ethical considerations. This integrated framework not only enhances business performance but also ensures that entrepreneurial activities are conducted in a manner consistent with ethical and inclusive principles. As businesses increasingly recognize the importance of ethical entrepreneurship and social responsibility, this integrated approach holds promise for driving sustainable economic growth and societal development.

Gamification and Entrepreneurship

Gamification is the use of game design elements, principles, and techniques in non-gaming contexts to engage and motivate individuals to achieve specific goals or objectives. It involves applying elements commonly found in games, such as competition, rewards, challenges, and points systems, to activities that may not traditionally be associated with gaming. In essence, gamification leverages the psychology of game-playing to make tasks or processes more enjoyable, interactive, and engaging, ultimately driving desired behaviors and outcomes. It can be applied in various fields, including education, marketing, employee training, healthcare, and business, to enhance engagement, motivation, and performance (Aries et al. 2020).

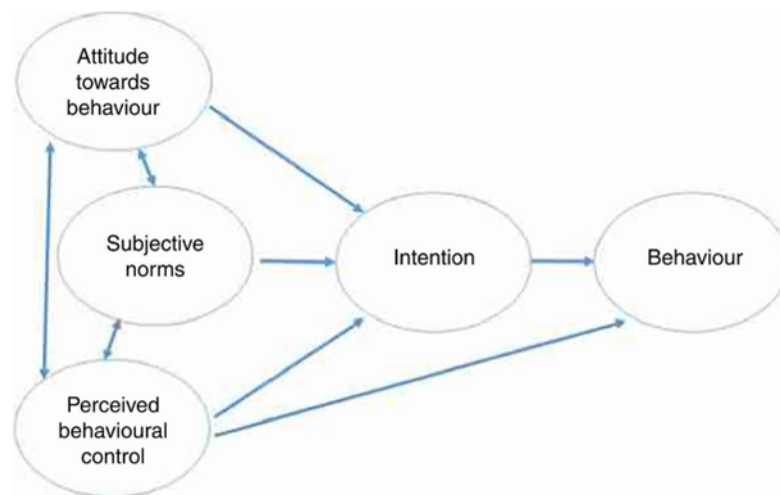


Figure 1: Gamification and entrepreneurial intentions (Ruiz-Alba et al. 2019)

The provided diagram illustrates the Theory of Planned Behaviour (TPB), which posits that an individual's behaviour is directly influenced by their intention to perform the behaviour. This intention is, in turn, shaped

by three factors: attitude towards the behaviour, subjective norms, and perceived behavioural control. Relating this to the article (Ruiz-Alba et al. 2019), on "Gamification and entrepreneurial intentions," the TPB can be effectively applied. The study suggests that gamification can positively affect entrepreneurial intentions by enhancing attitudes towards entrepreneurial behaviour, shaping subjective norms, and increasing perceived behavioural control. Gamified experiences can make entrepreneurial activities more engaging and accessible, thereby fostering a positive attitude. Additionally, social aspects of gamification can influence subjective norms by creating a supportive community. Lastly, gamification can boost perceived behavioural control by providing skills and knowledge through interactive and practical experiences. This theoretical framework helps explain how gamification strategies can be used to enhance entrepreneurial intentions by leveraging the components of the TPB.

Gamification, characterized by the infusion of game elements into non-game contexts, offers entrepreneurs a multifaceted approach to engage stakeholders and drive desired behaviours. (Breuer et al. 2022; Bizzi 2023; Lai and Langley 2023) By introducing elements such as competition, rewards, and challenges, gamification fosters heightened engagement among employees, motivating them towards innovative thinking and improved performance. Furthermore, gamified training programs serve as effective vehicles for skill development, enabling entrepreneurs and employees to acquire new knowledge and competencies in a more engaging and immersive manner. Beyond internal operations, gamification also presents entrepreneurs with opportunities to enhance customer engagement through loyalty programs, contests, or interactive applications, thereby increasing brand loyalty and driving sales.

Simultaneously, the rise of artificial intelligence has revolutionized entrepreneurial practices, offering unprecedented levels of automation, efficiency, and strategic insight. AI-driven automation optimizes operational workflows by streamlining routine tasks, allowing entrepreneurs to allocate resources more efficiently towards strategic activities. Moreover, AI-powered data analysis capabilities empower entrepreneurs with real-time insights into market trends, consumer behaviour, and business metrics, facilitating informed decision-making and adaptive strategies (Antonaci et al. 2015; Korn and Schmidt 2015; Qian et al. 2023). The personalization enabled by AI-driven recommendation engines and chatbots further enhances customer experiences, strengthening brand loyalty and driving competitive advantage in the marketplace.

The convergence of gamification and AI in entrepreneurship represents a paradigm shift in how businesses engage stakeholders, optimize operations, and drive growth. By harnessing the motivational power of gamification and the analytical prowess of AI, entrepreneurs can cultivate an environment conducive to innovation, agility, and sustainable success. This chapter explores the multifaceted impact of gamification and AI on entrepreneurship, elucidating their roles in enhancing engagement, fostering skill development, driving customer interaction, and enabling data-driven decision-making. Through empirical evidence and case studies, we delve into practical applications, emerging trends, and future directions at the intersection of gamification, AI, and entrepreneurship, offering insights for researchers, practitioners, and policymakers alike.

Gamification and AI

Gamification is a strategy that involves applying elements and principles of game design to non-gaming contexts with the goal of engaging, motivating, and encouraging desired behaviours or actions (Xin and Ma 2023). Gamification is the process of using game-like elements, such as points, rewards, challenges, competition, and interactive features, in non-game scenarios to motivate and engage individuals, typically to achieve specific objectives or tasks.

The key definitions and concepts associated with gamification are given in the Table 1.

Table 1. Key Definitions and Concepts *Source: Authors Own*

| Concept | Description |
|--|--|
| Game Elements | Incorporates points, badges, leaderboards, challenges or quests, levels or progression, rewards and prizes, and narrative or storytelling. |
| Motivation | Taps into intrinsic (internal) and extrinsic (external) motivation. |
| Engagement | Aims to keep users engaged and immersed, leading to increased participation and commitment. |
| Feedback | Provides immediate and constructive feedback to help users understand their progress and stay motivated. |
| Clear Goals and Objectives | Establishes clear objectives and goals, such as encouraging learning or promoting specific behaviors. |
| Customization and Personalization | Allows for tailoring the experience to individual preferences and skill levels. |
| Progression and Mastery | Offers a sense of progression and opportunities to master challenges, fostering a sense of accomplishment. |
| Social Interaction | Incorporates social elements like sharing achievements and competing with others to enhance engagement and community sense. |
| Feedback Loops | Continuous feedback loops provide ongoing performance and progress information to users. |

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The Role of AI in Islamic Finance

This paper explores the integration of gamification, AI, and Islamic finance in entrepreneurship, highlighting the alignment of engagement, innovation, and ethical considerations. Grounded in ethical principles, Islamic finance is built upon unique characteristics, which are based upon principles underlined with Shari'ah. Gamification and AI offer innovative tools to enhance learning, training, and compliance, while aligning with Islamic values. By combining these elements, entrepreneurs can develop business models that prioritize ethical entrepreneurship, foster inclusive growth, and promote social responsibility. This paper discusses the potential of this integrated approach to drive sustainable and ethical entrepreneurship, contributing to the broader discourse on responsible business practices and economic development.

AI is increasingly recognized as a transformative force in various sectors, including finance (Rabbani et al. 2023). In the context of Islamic finance, AI can play a significant role in enhancing operational efficiency, compliance with Sharia principles, and customer engagement. Here are some key aspects of how AI can influence Islamic finance:

Enhancing Operational Efficiency: AI can streamline processes in Islamic finance institutions by automating routine tasks such as data entry, transaction processing, and customer service (Korn and Schmidt, 2015). This automation can lead to faster service delivery and reduced operational costs, allowing institutions to focus on more complex tasks that require human judgment.

Compliance with Sharia Principles: One of the unique challenges in Islamic finance is ensuring that all financial products and services comply with Sharia law. AI can assist in this area by analysing transactions and contracts to ensure they adhere to Islamic principles. Machine learning algorithms can be trained to identify non-compliant transactions, thereby reducing the risk of Sharia violations (Rabbani et al. 2023).

Risk Management: AI can enhance risk assessment and management in Islamic finance. By analysing large datasets, AI can identify patterns and predict potential risks associated with various financial products (Wunderlich et al. 2020). This predictive capability can help Islamic financial institutions make informed decisions and mitigate risks effectively.

Customer Engagement and Personalization: AI technologies, such as chatbots and virtual assistants, can improve customer engagement by providing personalized services (Saputra and Rahmatia 2021). These tools can assist customers in navigating Islamic financial products, answering queries about compliance, and offering tailored financial advice based on individual needs and preferences.

Market Analysis and Product Development: AI can analyze market trends and customer behavior, providing insights that can inform the development of new Islamic financial products. By understanding customer preferences and market demands, institutions can innovate and offer products that meet the needs of their clientele.

Financial Inclusion: AI can also play a role in promoting financial inclusion within the Islamic finance sector. By leveraging mobile technology and AI-driven platforms, financial institutions can reach underserved populations, providing them with access to Sharia-compliant financial services.

From all these aspects an entrepreneur can use AI for; Text Mining, Algorithmic Trading, Stock Pick, and Robo advisor in Islamic investment system based on the application of AI in Islamic investment (Gazali et al., 2020).

These all new instruments on financial transactions and investments for an entrepreneur. Vast amount of data though the big data era makes "text mining" very important, on the other hand Algorithmic Trading (AT), picking stock and robo advisors bring many opportunities for Islamic Finance via AI.

The integration of AI in Islamic finance presents numerous opportunities for enhancing efficiency, compliance, and customer satisfaction. As the sector continues to evolve, embracing AI technologies will be crucial for Islamic financial institutions to remain competitive and responsive to the needs of their customers (Rabbani et al. 2023).

Conclusion

The confluence of gamification, entrepreneurship, and Islamic finance, powered by AI, heralds a transformative shift in the economic landscape. This study highlights the myriad ways in which these domains intersect to create a framework that is not only innovative but also ethically grounded and inclusive. Gamification, by incorporating game elements into non-gaming contexts, enhances engagement and motivation, driving desired behaviours among stakeholders. Entrepreneurs can utilize these techniques to foster innovation, improve employee performance, and build customer loyalty through interactive and rewarding experiences.

AI, on the other hand, provides the technological backbone that supports these efforts, offering sophisticated tools for data analysis, compliance monitoring, and personalized customer interactions. By harnessing AI, entrepreneurs can optimize operational workflows, gain real-time insights into market trends, and create tailored financial products that meet the diverse needs of their clientele. This integration ensures that business processes are efficient, adaptive, and customer centric.

Islamic finance introduces an ethical dimension to this framework, emphasizing principles such as fairness, justice, and social responsibility. Entrepreneurs operating within this paradigm are guided by Sharia-compliant practices that promote equitable wealth distribution and community welfare. This ethical foundation aligns with the broader goals of sustainable development, ensuring that economic growth is inclusive and socially responsible.

The practical applications of this integrated approach are vast. For instance, gamified financial education platforms can enhance financial literacy among young investors, while AI-driven compliance tools ensure adherence to Islamic finance principles. Additionally, gamified training programs can cultivate entrepreneurial skills, fostering a new generation of ethical and innovative business leaders.

However, the study also acknowledges the potential risks associated with gamification, particularly in the financial sector. Instances of misuse, such as the negative impacts of gamified investment platforms, underscore the need for a balanced approach that mitigates risks while maximizing benefits. This calls for robust regulatory frameworks and ongoing research to address the ethical implications and ensure the responsible deployment of gamification and AI in financial services.

In conclusion, the fusion of gamification, AI, and Islamic finance offers a holistic approach to entrepreneurship that balances innovation with ethical considerations. By exploring this intersection, the study provides a foundation for future research and practical strategies that can drive sustainable economic growth. This integrated framework not only enhances business performance but also contributes to the creation of an inclusive and ethical economic ecosystem. As businesses and policymakers increasingly recognize the importance of ethical entrepreneurship, this study's insights can inform the development of policies and practices that harness the potential of these emerging technologies while safeguarding against their pitfalls.

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GENİŞLETİLMİŞ ÖZET

Teknolojik gelişmelerin artması ve Yapay Zekâ (YZ) araçlarının finansal piyasalarda daha fazla kullanılmaya başlamasıyla birlikte, finansallaşma ve finansa erişim konusunda önemli gelişmeler olmaktadır. Bu çalışmada özellikle oyunlaştırma, girişimcilik ve İslami finansın birlikte sunacağı fırsatlar tartışılmaktadır. Oyunlaştırma, girişimcilik ve İslami Finansın birlikte ele alındığı bu çalışma literatürdeki önemli bir boşluğu dolduracaktır. YZ'nin dönüştürücü etkisi ve teknolojik gelişmeler özellikle finans piyasasında dönüştürücü bir etki oluşturmaktadır. Geleneksel müşteri davranışlarında yaşanan değişimler, girişimcileri ve finans profesyonellerini teknolojik alanda yaşanan gelişmeleri yakından takip etmeye zorlamaktadır. Oyunlaştırma ilkeleri bu alanda profesyonellere yeni fırsatlar sunmaktadır. Oyun tasarımı ve oyun ilkeleri ile yeni teknolojik gelişmelere adaptasyon daha hızlı sağlanabilirken, kitleleri daha hızlı harekete geçirmek mümkün hale geliyor. Bu çalışma, oyunlaştırma ve YZ'nin İslami finansla bütünleştirildiğinde girişimcilik süreçlerini ve stratejilerini nasıl yeniden şekillendirebileceğini, daha kapsayıcı, etik ve sürdürülebilir bir ekonomik manzarayı nasıl teşvik edebileceğini araştırıyor.

Oyunlaştırma, katılımı, motivasyonu ve davranış değişikliğini artırarak finans, eğitim ve sağlık hizmetleri dahil olmak üzere çeşitli sektörlerde öne çıkmıştır. Literatürde karşımıza çıkan bir çok çalışmada, oyunlaştırmanın kişisel finans yönetimi uygulamaları üzerindeki etkisini inceleyerek, oyunlaştırmanın yetkinlik ve özerklik ihtiyaçlarını karşılayarak kullanıcı motivasyonunu ve katılımını nasıl artırdığını göstermiştir. Özellikle genç yatırımcılar arasında finansal tutum ve davranışları düzenlemede oyunlaştırmanın önemli bir rolü olduğunu görmekteyiz. Finansal yönetim davranışlarını güçlendirmek için özel olarak tasarlanmış oyunlaştırma öğeleri çeşitli çalışmalarda önerilmiştir. Oyunlaştırma ve oyun öğeleri kitlesel fonlama, robo-danışmanlık, veri analizi, piyasa araştırma, algoritmik ticaret gibi bir çok alanda kullanıcı katılımını artıracak etkiye sahiptir. Oyunlarda belirlenen hedeflere ulaşmaya çalışan oyuncuların odak noktası ulaşacakları hediyeler olacaktır. Finansal piyasalarda yatırımcıların ulaşmaya çalıştıkları temel argüman ise finansal karlılık ve kar maksimizasyonu olacaktır. Bu noktadan hareketle oyun öğelerinin ve sisteminin finansal araçlar içerisine adeta gömülü bir şekilde verilmesi katılımı ve ilgiyi artıracaktır. Bunun yanı sıra işletmelerde işletme kültürünün oluşması, paydaş katılımının artırılması ve piyasa payının artırılması için oyunlaştırma tercih edilebilir. YZ'nin yenilikçi finansal süreçlerdeki rolü, girişimcilik ve oyunlaştırma ile bir araya geldiği zaman önemli bir argüman olarak karşımıza çıkmaktadır. Bu noktadan hareketle YZ tabanlı oyunlaştırma projeleri İslami Finansın gelişimi için de önemli fırsatlar sunmaktadır. İslam hukukunun riskin doğrudan transferi yerine risk paylaşımı modelini, etik ilkeleri, adaleti, iş birliğini ve toplumsal faydayı ön plana çıkaran temel ilkeleri doğrultusunda YZ tabanlı girişimler bu alanda önemli bir yere sahip olacaktır.

Bu çalışma, girişimcilik içinde oyunlaştırma, YZ ve İslami finansı bir araya getirerek, etkileşim, yenilikçilik ve etik hususların uyumunu vurgulamaktadır. Girişimciliğin dinamik ekosistemi içerisinde, yenilikçi teknolojiler ve stratejiler sürdürülebilir başarı ve rekabet avantajı için hayati önem taşımaktadır. Oyunlaştırma, rekabet, ödüller ve zorluklar gibi unsurları tanıtarak paydaşlar arasında artan katılımı teşvik eder ve yenilikçi düşünmeyi ve gelişmiş performans motive eder. Oyunlaştırılmış eğitim programları beceri gelişimini kolaylaştırır, girişimcilerin ve çalışanların ilgi çekici bir şekilde yeni bilgi ve yeterlilikler edinmelerini sağlar. Dahili operasyonların ötesinde, oyunlaştırma sadakat programları, yarışmalar ve etkileşimli uygulamalar aracılığıyla müşteri katılımını artırır, marka sadakatini artırır ve satışları yönlendirir.

Oyunlaştırma, yapay zeka ve İslami finansın entegrasyonu, yenilikçiliği ve katılımı teşvik ederken etik girişimciliği geliştirmek için önemli bir fırsat sunmaktadır. Oyunlaştırma, katılımı ve motivasyonu artırarak İslami ekonomi ilkeleri ve etik uygulamaları hakkında öğrenmeyi ve eğitimi kolaylaştırır. YZ, veri analizi ve uyumluluk izleme için gelişmiş araçlar sunarak İslam hukukunun temel ilkelerine uyumu sağlayarak ve kasıtsız ihlal riskini azaltır. Ayrıca, YZ İslami finans ilkelerine uyan kapsayıcı finansal ürünler tasarlanması ve ürün geliştirme alanında yenilikleri beraberinde getirir.

YZ ile gelen bu fırsatların yanı sıra özellikle oyunlaştırmanın ve yeni teknolojileri finansal piyasalar üzerinde olumsuz etkileri olabilir. Burada daha dengeli bir yaklaşım ve yasal düzenlemelerin önemi ortaya çıkmaktadır. Robinhood gibi platformlarda gözlemlenen olumsuz etkiler gibi oyunlaştırılmış yatırım platformlarının kötüye kullanımı, dengeli bir yaklaşıma duyulan ihtiyacı vurguluyor. Düzenleyici çerçeveler, finansal hizmetlerde oyunlaştırma ve yapay zekanın sorumlu bir şekilde dağıtılmasını sağlamak için bu etik etkileri ele almalıdır.

Bu alıřma, oyunlařtırma, yapay zeka ve İslami finansın entegrasyonu yoluyla srdrlebilir ekonomik bymeyi ynlendiren gelecekteki arařtırmalar ve pratik stratejiler iin bir temel sunmaktadır. Bu keřiřimi inceleyerek alıřma, bu unsurların etik ve kapsayıcı ekonomik uygulamaları teřvik ederken iř performansını nasıl arttırabileceđini vurgulamaktadır. Bu arařtırmadan elde edilen igrler, bu ortaya ıkan teknolojilerin potansiyelinden yararlanan politikaların ve uygulamaların geliřtirilmesine bilgi sađlayabilir ve daha kapsayıcı ve etik bir ekonomik ekosistemin yaratılmasına katkıda bulunabilir. İřletmeler ve politika yapıcılar etik giriřimciliđin nemini kabul ettike, alıřmanın bulguları bu yenilikleri sorumlu bir řekilde kullanmak iin deđerli rehberlik sunmaktadır.