

An Integrated Cloud and AI Driven Model for Cryptocurrency Trend Forecasting and Digital Risk Management

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ABSTRACT: The rapid evolution of cryptocurrency markets has transformed global financial systems into complex, high velocity, and highly speculative digital ecosystems whose behavior is deeply entangled with computational infrastructure, cybersecurity exposure, and regulatory uncertainty. Unlike traditional equity markets, cryptocurrency exchanges operate through distributed, cloud mediated trading platforms that are continuously targeted by adversarial actors, automated bots, and algorithmic arbitrage systems, thereby creating non linear feedback loops between security events, market sentiment, and price formation. This study develops a comprehensive analytical and methodological framework for understanding how cloud deployed ensemble deep learning systems can be used to model, interpret, and forecast cryptocurrency market dynamics while being embedded within governance, risk, and compliance structures. Grounded in the conceptual and technical foundations presented by Kanikanti, Nagavalli, Varanasi, Sresth, Gandhi, and Lakhina in their 2025 IEEE contribution on cloud based ensemble deep learning for cryptocurrency trend prediction, this article expands their architecture into a broader theoretical model of cyber financial intelligence, connecting machine learning, cloud microservices, cybersecurity governance, and financial market theory into a single unified research agenda (Kanikanti et al., 2025).

The study synthesizes insights from artificial intelligence based stock market prediction, dynamic risk management in digital transformation, governance frameworks for enterprise AI, and automated vulnerability assessment to argue that predictive accuracy in cryptocurrency markets cannot be meaningfully separated from the security, governance, and computational environment in which the predictive models operate (Jain and Vanzara, 2023; Lin and Marques, 2023; Kumar et al., 2023; Pochu et al., 2022). Through a text based methodological design, the research constructs a layered analytical model that integrates ensemble learning pipelines, cloud microservice orchestration, dynamic graph based transaction modeling, and governance risk compliance logic into a single operational ecosystem (Cherukuri, 2020; Malhotra et al., 2023; Hechler et al., 2020).

The results demonstrate that cloud deployed ensemble deep learning architectures, when governed through robust cybersecurity and compliance frameworks, create a form of adaptive market intelligence that is capable of learning from volatility, absorbing shocks, and re calibrating predictive structures in near real time. However, these gains are inseparable from the risks of algorithmic bias, adversarial manipulation, and governance breakdowns that can amplify rather than mitigate systemic instability (McIntosh et al., 2023; Sharma and Sharma, n.d.; Babatunde et al., 2022). By embedding predictive analytics within governance risk and compliance ecosystems, the research shows that forecasting accuracy and institutional trust become mutually reinforcing rather than contradictory objectives.

This article contributes to scholarship by reframing cryptocurrency prediction not merely as a machine learning problem but as a socio technical system that spans cloud infrastructure, cybersecurity, regulatory governance, and financial market theory. The findings suggest that the future of crypto financial forecasting lies in the convergence of ensemble deep learning with enterprise grade governance architectures, where predictive power, security, and accountability co evolve within a single digital ecosystem.

Keywords: Cryptocurrency forecasting, ensemble deep learning, cloud computing, cybersecurity governance, financial market volatility, artificial intelligence, digital risk management

INTRODUCTION

The Cryptocurrency markets have emerged as one of the most volatile and technologically mediated financial

environments in modern economic history. Unlike traditional stock markets, which are governed by centralized exchanges, institutional oversight, and relatively slow regulatory adaptation, cryptocurrencies operate through distributed ledger technologies, decentralized exchanges, and cloud based trading platforms that transcend national borders and regulatory jurisdictions. This creates a financial ecosystem where price formation, investor behavior, technological infrastructure, and cybersecurity threats are deeply interwoven into a single dynamic system (Jain and Vanzara, 2023). The result is a market environment in which volatility is not merely a reflection of economic fundamentals but also of technological fragility, algorithmic trading dynamics, and security breaches that can instantly reshape investor sentiment.

Within this context, artificial intelligence has become a central instrument for extracting patterns from massive volumes of cryptocurrency trading data. Deep learning models, reinforcement learning agents, and ensemble architectures have been increasingly adopted to forecast price movements, detect anomalies, and guide automated trading strategies (Lin and Marques, 2023). Yet, the majority of existing literature treats cryptocurrency prediction primarily as a statistical or algorithmic optimization problem, focusing on accuracy metrics while often ignoring the infrastructural and governance environment in which these models operate. This omission is especially problematic in crypto markets, where cloud based deployment, microservices architectures, and exposure to cyber attacks directly influence both the reliability of data and the behavior of the markets themselves (Cherukuri, 2020; Kumar et al., 2023).

The work of Kanikanti, Nagavalli, Varanasi, Sresth, Gandhi, and Lakhina represents a significant step toward addressing this gap by explicitly situating cryptocurrency prediction within cloud deployed ensemble deep learning frameworks (Kanikanti et al., 2025). Their research demonstrates that combining multiple deep learning models in a cloud environment enables superior predictive performance by capturing diverse temporal and structural features of cryptocurrency price data. However, while their architecture emphasizes scalability and predictive power, it leaves open critical questions about governance, cybersecurity, and systemic risk that accompany the deployment of such powerful predictive systems in volatile and adversarial digital markets.

This study extends the conceptual foundation established by Kanikanti et al. by embedding ensemble deep learning architectures within a broader theoretical framework of governance, risk, and compliance. In modern digital enterprises, governance is no longer a purely managerial or regulatory concern but is increasingly encoded into software systems, cybersecurity protocols, and automated decision making pipelines (Hechler et al., 2020). Cryptocurrency prediction systems deployed in the cloud are not isolated analytical tools; they are operational components of financial infrastructure that can influence trading behavior, liquidity, and market stability. As such, their design, deployment, and governance have implications that go far beyond technical accuracy (McIntosh et al., 2023).

The literature on AI based financial prediction provides a useful foundation for understanding these dynamics. Systematic reviews of stock market prediction research show that ensemble models, hybrid architectures, and deep neural networks consistently outperform single model approaches, particularly in environments characterized by high volatility and non linear dynamics (Jain and Vanzara, 2023; Lin and Marques, 2023). However, these studies also emphasize that predictive success is contingent on data integrity, computational stability, and the absence of adversarial manipulation, all of which are profoundly affected by cybersecurity and governance structures. In cryptocurrency markets, where exchanges have been repeatedly targeted by hackers and where data feeds can be manipulated through wash trading or bot driven activity, the reliability of predictive models is inseparable from the security of the platforms on which they operate (Pochu et al., 2022; Babatunde et al., 2022).

From the perspective of digital transformation theory, cryptocurrency trading platforms represent some of the

most advanced examples of cloud native, microservice based financial systems (Cherukuri, 2020). These platforms rely on distributed computing, containerization, and real time data pipelines to process millions of transactions per second. While this architecture enables unprecedented scalability and responsiveness, it also introduces complex interdependencies that can propagate failures and vulnerabilities across the system (Kumar et al., 2023). When predictive models such as ensemble deep learning systems are embedded into these infrastructures, their outputs can influence automated trading strategies, liquidity provision, and even regulatory responses, thereby creating feedback loops that can amplify both profits and risks.

Cybersecurity scholarship further complicates this picture by highlighting the ways in which adversarial actors exploit these same infrastructures to manipulate markets and extract value. Automated vulnerability assessment tools, penetration testing frameworks, and governance risk compliance systems have been developed to mitigate these threats, but they often operate in silos separate from predictive analytics (Pochu et al., 2022; Babatunde et al., 2022). The result is a fragmented digital ecosystem in which predictive models may generate highly accurate forecasts based on corrupted or manipulated data, thereby producing outputs that are technically sophisticated but economically misleading.

The need for integration between predictive modeling and governance is increasingly recognized in enterprise AI research. Hechler, Oberhofer, and Schaeck argue that AI systems must be governed through comprehensive frameworks that encompass design, deployment, compliance, and ethical accountability if they are to be trusted as decision making instruments (Hechler et al., 2020). In cryptocurrency markets, where trust is already fragile and regulatory oversight is limited, the absence of such frameworks can transform predictive systems into instruments of instability rather than stability. This is particularly relevant for cloud deployed ensemble deep learning models, whose complexity and opacity make them difficult to audit or regulate using traditional methods.

The literature on cybersecurity governance and ransomware mitigation further underscores the importance of embedding predictive systems within robust governance structures. McIntosh and colleagues demonstrate that AI driven governance, risk, and compliance frameworks can significantly enhance organizational resilience by automating policy generation, risk assessment, and incident response (McIntosh et al., 2023). When applied to cryptocurrency prediction systems, such frameworks could enable real time adaptation to cyber threats, data anomalies, and market disruptions, thereby improving both predictive accuracy and systemic stability.

Despite these insights, there remains a significant literature gap at the intersection of cloud deployed ensemble deep learning, cryptocurrency prediction, and cybersecurity governance. Most studies focus either on improving predictive algorithms or on strengthening security and compliance frameworks, but rarely on integrating the two into a coherent socio technical system. This gap is particularly evident in the context of emerging markets such as cryptocurrencies, where technological innovation outpaces regulatory and institutional adaptation (Sharma and Sharma, n.d.). As a result, there is a pressing need for research that treats predictive modeling not as an isolated technical problem but as a component of a larger digital ecosystem that includes cloud infrastructure, microservices, cybersecurity, and governance.

This article addresses this gap by developing a comprehensive theoretical and methodological framework for cloud deployed ensemble deep learning in cryptocurrency markets that explicitly incorporates governance, risk, and compliance considerations. Building on the predictive architecture proposed by Kanikanti et al., the study integrates insights from AI based stock market prediction, cloud computing, cybersecurity, and digital transformation to create a multi layered model of crypto financial intelligence (Kanikanti et al., 2025; Jain and Vanzara, 2023; Cherukuri, 2020; Kumar et al., 2023). Through this synthesis, the research aims to demonstrate that predictive accuracy, cybersecurity, and governance are not competing objectives but mutually reinforcing dimensions of a resilient digital financial system.

METHODOLOGY

The methodological foundation of this research is rooted in a socio technical systems approach that treats cryptocurrency prediction as an emergent property of interactions between machine learning algorithms, cloud infrastructure, cybersecurity frameworks, and governance mechanisms. Rather than conducting a narrow experimental evaluation of a single algorithm, the study adopts a conceptual and analytical methodology designed to integrate and interpret the diverse strands of scholarship that converge in the work of Kanikanti et al. on cloud deployed ensemble deep learning for cryptocurrency trend prediction (Kanikanti et al., 2025). This approach is consistent with the broader literature on AI driven financial forecasting, which emphasizes that the validity and reliability of predictive models depend as much on their operational context as on their internal architectures (Jain and Vanzara, 2023; Lin and Marques, 2023).

At the core of the methodology lies the ensemble deep learning paradigm, which combines multiple neural network models to produce a single predictive output. In the context of cryptocurrency markets, ensemble learning is particularly valuable because price movements are influenced by heterogeneous factors including trading volume, social media sentiment, macroeconomic indicators, and network level transaction patterns. Kanikanti et al. demonstrated that deploying ensembles of recurrent and convolutional neural networks in a cloud environment allows for the simultaneous modeling of temporal dependencies and spatial feature patterns in crypto price data (Kanikanti et al., 2025). This study adopts their architectural logic as a foundational reference point while extending it into a broader governance aware framework.

The cloud deployment layer is conceptualized through the lens of microservices and containerization, which enable the modularization and scalable orchestration of predictive models across distributed computing environments (Cherukuri, 2020). In this framework, each deep learning model within the ensemble is treated as a microservice that can be independently deployed, scaled, and updated. This architectural choice is not merely technical but methodological, as it allows the research to analyze how different models contribute to the ensemble under varying market and security conditions. By conceptualizing the predictive system as a network of interacting services rather than a monolithic algorithm, the methodology aligns with contemporary theories of digital transformation and cloud native system design (Kumar et al., 2023).

To incorporate cybersecurity and governance considerations, the methodology integrates automated vulnerability assessment, penetration testing frameworks, and governance risk compliance logic into the analytical model. The literature on automated vulnerability assessment emphasizes that AI systems can be both defenders and targets within digital ecosystems, making security a dynamic and adaptive process rather than a static checklist (Pochu et al., 2022). By embedding vulnerability scanning and risk assessment into the cloud based predictive pipeline, the methodology allows for the analysis of how security events and data integrity issues propagate through ensemble learning systems. This is further reinforced by the governance perspective articulated by Hechler et al., which frames AI deployment as an organizational and regulatory process as much as a technical one (Hechler et al., 2020).

The methodological design also draws on dynamic graph processing techniques to model the complex networks of cryptocurrency transactions and interactions. Malhotra and colleagues demonstrate that parallel dynamic graph processing algorithms are well suited for capturing evolving relationships in large scale networks, making them particularly relevant for modeling blockchain transactions and trading networks (Malhotra et al., 2023). By integrating graph based representations of market activity into the ensemble learning framework, the methodology enables a richer and more context aware form of prediction that goes beyond simple time series analysis.

From a data governance perspective, the methodology incorporates principles from governance, risk, and

compliance frameworks that are increasingly being automated through AI driven policy generation and enforcement (McIntosh et al., 2023). These frameworks provide the conceptual tools needed to evaluate not only the accuracy of predictions but also their compliance with regulatory, ethical, and security standards. In cryptocurrency markets, where regulatory oversight varies widely across jurisdictions, such governance mechanisms are essential for ensuring that predictive systems do not inadvertently facilitate fraud, market manipulation, or other forms of digital misconduct (Sharma and Sharma, n.d.; Babatunde et al., 2022).

The analytical process underlying this methodology is interpretive rather than purely statistical. Instead of reporting numerical performance metrics, the study analyzes how different components of the cloud deployed ensemble system interact under varying conditions of market volatility, cyber threat intensity, and governance strictness. This approach is consistent with the qualitative orientation of much of the literature on digital transformation and AI governance, which emphasizes the need to understand how technologies reshape organizational and market structures over time (Kumar et al., 2023; Hechler et al., 2020).

Limitations of this methodological approach are acknowledged as part of its design. Because the study is based on an integrative and theoretical synthesis of existing literature rather than on a new empirical dataset, its conclusions are necessarily interpretive and contingent on the validity of the referenced studies. However, this limitation is also a strength, as it allows the research to draw connections across domains that are often studied in isolation, thereby generating new theoretical insights into the nature of cryptocurrency prediction in cloud based, security sensitive environments (Jain and Vanzara, 2023; Kanikanti et al., 2025).

RESULTS

The results of this research emerge from the synthesis of ensemble deep learning theory, cloud computing architecture, and cybersecurity governance as articulated across the referenced literature. When interpreted through the framework established by Kanikanti et al., the integration of multiple deep learning models within a cloud deployed environment produces a form of predictive intelligence that is more resilient to the noise, volatility, and non linearity that characterize cryptocurrency markets (Kanikanti et al., 2025). This resilience is not merely a technical property but an emergent outcome of how models, infrastructure, and governance interact.

One of the most significant findings is that ensemble architectures deployed through cloud microservices exhibit a form of adaptive diversity that enhances predictive robustness. Each model within the ensemble captures different aspects of market behavior, such as short term price fluctuations, long term trends, or network level transaction patterns. When these models are orchestrated through a cloud platform, they can be dynamically re weighted or re configured in response to changing market conditions, thereby maintaining predictive stability even in the face of extreme volatility (Cherukuri, 2020; Jain and Vanzara, 2023). This finding aligns with the broader literature on ensemble learning, which consistently shows that diversity among models reduces the risk of overfitting and improves generalization in complex environments (Lin and Marques, 2023).

Another key result is that the incorporation of cybersecurity governance mechanisms into the predictive pipeline significantly enhances the reliability of model outputs. Automated vulnerability assessment and penetration testing frameworks, when integrated into the cloud infrastructure, act as continuous filters that detect and mitigate data integrity issues before they propagate into the learning process (Pochu et al., 2022; Babatunde et al., 2022). This is particularly important in cryptocurrency markets, where malicious actors may attempt to manipulate data feeds or exploit system vulnerabilities to influence prices. By embedding security checks into the ensemble learning workflow, the predictive system becomes less susceptible to adversarial manipulation, thereby preserving the economic validity of its forecasts.

The results also reveal that governance risk compliance frameworks play a crucial role in aligning predictive systems with regulatory and ethical standards. AI driven GRC tools, as described by McIntosh et al., enable the automated generation and enforcement of policies that govern how data is collected, processed, and used in decision making (McIntosh et al., 2023). When applied to cloud deployed ensemble deep learning systems, these tools ensure that predictive outputs are not only accurate but also compliant with legal and organizational constraints. This dual focus on accuracy and compliance is essential for building trust in predictive systems within financial markets, where regulatory scrutiny and reputational risk are always present (Sharma and Sharma, n.d.).

The integration of dynamic graph processing further enhances the interpretive power of the predictive system. By modeling cryptocurrency transactions as evolving networks, the ensemble can detect structural changes such as the emergence of new trading clusters or the concentration of activity around specific wallets (Malhotra et al., 2023). These network level insights complement traditional price based indicators, providing a richer context for understanding market movements. When combined with deep learning models that capture temporal patterns, the result is a multi dimensional form of market intelligence that is better suited to the complexity of crypto ecosystems (Kanikanti et al., 2025).

A particularly important outcome of this integrated framework is the emergence of feedback loops between prediction, governance, and market behavior. Accurate predictions influence trading strategies, which in turn affect market prices and volatility. At the same time, governance mechanisms monitor these activities for compliance and security risks, adjusting system parameters as needed to maintain stability (Hechler et al., 2020; Kumar et al., 2023). This creates a dynamic system in which predictive accuracy and institutional control co evolve, rather than operating in isolation. The result is a more stable and transparent market environment, even in the face of high volatility and technological uncertainty.

DISCUSSION

The findings of this research have profound implications for how cryptocurrency markets, cloud computing, and artificial intelligence are understood within contemporary financial and technological scholarship. At a theoretical level, the integration of cloud deployed ensemble deep learning with governance, risk, and compliance frameworks challenges the dominant narrative that treats financial prediction as a purely technical problem. Instead, it reveals cryptocurrency forecasting as a socio technical system in which algorithms, infrastructure, institutions, and adversaries are in constant interaction (Kanikanti et al., 2025; Hechler et al., 2020).

From the perspective of financial market theory, the results support the view that markets are not merely aggregations of individual decisions but complex adaptive systems shaped by information flows, technological platforms, and regulatory environments. In traditional stock markets, these dynamics are mediated by exchanges, brokers, and regulators. In cryptocurrency markets, they are mediated by cloud platforms, algorithmic trading systems, and cybersecurity frameworks (Jain and Vanzara, 2023; Lin and Marques, 2023). By embedding ensemble deep learning models within cloud based microservices architectures, the predictive system becomes an active participant in market dynamics rather than a passive observer.

This raises important questions about the reflexivity of predictive systems. When traders and institutions rely on AI driven forecasts to guide their decisions, those forecasts can influence the very market behavior they are intended to predict. This phenomenon, which has long been recognized in economic theory, becomes even more pronounced in high frequency, algorithmically mediated markets such as cryptocurrencies (Kumar et al., 2023). The inclusion of governance and cybersecurity mechanisms in the predictive pipeline serves as a moderating force, preventing runaway feedback loops that could destabilize the market through excessive

automation or adversarial exploitation (McIntosh et al., 2023; Babatunde et al., 2022).

The discussion also highlights the role of cloud computing as a structural enabler of both innovation and risk. Microservices and containerization allow ensemble deep learning systems to scale rapidly and adapt to changing workloads, but they also create complex dependency networks that can propagate failures and vulnerabilities across the system (Cherukuri, 2020). When these infrastructures host financial prediction models, the stakes of system reliability become exceptionally high. A single misconfiguration or security breach can compromise not only data integrity but also market confidence, leading to cascading economic effects (Sharma and Sharma, n.d.).

Cybersecurity emerges as a central theme in this analysis, not as a peripheral concern but as a core determinant of predictive validity. Automated vulnerability assessment, penetration testing, and GRC frameworks provide the tools needed to maintain trust in AI driven financial systems, but they must be integrated into the predictive architecture rather than treated as external add ons (Pochu et al., 2022; McIntosh et al., 2023). The work of Kanikanti et al. implicitly recognizes this by deploying their ensemble models in the cloud, where security and scalability are inseparable, but further theoretical and practical work is needed to fully realize this integration (Kanikanti et al., 2025).

Counter arguments to this integrated approach often emphasize the risks of over complexity. Critics may argue that embedding governance, security, and ensemble learning into a single system creates a level of complexity that is difficult to manage and audit. There is a legitimate concern that highly sophisticated predictive systems could become opaque, making it difficult for regulators and stakeholders to understand or challenge their outputs (Hechler et al., 2020). However, the alternative, which is to deploy powerful AI models without adequate governance, is arguably far more dangerous, as it exposes markets to manipulation, bias, and systemic instability (Babatunde et al., 2022; Sharma and Sharma, n.d.).

Future research should build on this framework by exploring how explainable AI techniques, regulatory sandboxes, and international governance standards can be integrated into cloud deployed ensemble learning systems. As cryptocurrency markets continue to evolve, the need for transparent, secure, and accountable predictive systems will only grow. By situating technical innovation within a broader socio technical and institutional context, scholars and practitioners can move toward a more sustainable and trustworthy model of digital finance (Jain and Vanzara, 2023; Kanikanti et al., 2025).

CONCLUSION

This study has demonstrated that cloud deployed ensemble deep learning architectures, when embedded within robust cybersecurity and governance frameworks, offer a powerful and resilient approach to predicting cryptocurrency market behavior. Building on the foundational work of Kanikanti and colleagues, the research has shown that predictive accuracy, security, and institutional trust are not competing objectives but mutually reinforcing dimensions of a sophisticated digital financial ecosystem (Kanikanti et al., 2025). By integrating insights from artificial intelligence, cloud computing, cybersecurity, and financial market theory, the article provides a comprehensive framework for understanding the future of crypto market prediction in an increasingly interconnected and adversarial digital world.

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