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Research on Innovation of Ai-Driven Investment Decision-Making Paradigm in Primary Market

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Abstract: The primary market plays a critical role in allocating capital to emerging enterprises and innovative startups, yet traditional investment decision-making faces challenges such as information asymmetry, subjective bias, and inefficiency. This review explores the transformative potential of artificial intelligence (AI) in primary market investment, examining applications in venture capital and private equity across deal sourcing, due diligence, portfolio management, and exit planning. It presents a comprehensive AI-driven investment decision framework that integrates multi-source data acquisition, machine learning, deep learning, natural language processing, and graph-based modeling to enhance predictive accuracy and decision support. Key challenges, including data quality, privacy, interpretability, talent gaps, and ethical considerations, are discussed alongside future directions such as multi-modal data fusion, reinforcement learning, explainable AI, and human-AI collaborative strategies. The review highlights AI's capacity to systematize, optimize, and intelligentize investment processes, offering new pathways for efficiency, risk management, and strategic value creation in primary market activities.

Keywords: artificial intelligence; primary market investment; venture capital; private equity; datadriven decision-making

1. Introduction

The primary market serves as the foundation for capital allocation to emerging enterprises, innovative startups, and growth-oriented companies. Unlike secondary markets, where assets are exchanged among investors, the primary market facilitates the initial infusion of funds into businesses that have high growth potential but limited operating history. Investments in this market are inherently high risk and high reward, as they often involve untested business models, novel technologies, or companies lacking established revenue streams. The strategic importance of the primary market extends beyond financial returns, influencing entrepreneurial activity, technological development, and long-term economic growth. Investors in this space play a critical role in nurturing innovation, supporting job creation, and shaping the competitive landscape of industries.

Traditionally, investment decisions in the primary market rely heavily on expert judgment and manual analysis. Investors typically evaluate opportunities through financial statement reviews, market research, management interviews, and heuristic-based assessments of risk and potential [1]. While such methods can yield successful outcomes, they are limited in several ways. First, the process is often time-consuming, as gathering, verifying, and analyzing relevant information requires significant human effort. Second, the quality of decisions is affected by information asymmetry; early-stage companies frequently provide incomplete or inconsistent data, making objective assessment difficult. Third, human cognitive biases, including overconfidence, favoritism, and herd mentality, can distort decision-making and reduce portfolio performance. The combination of these factors makes traditional investment approaches less efficient and potentially less accurate in identifying the most promising opportunities [2].

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The emergence of artificial intelligence (AI) offers transformative potential for primary market investment. AI encompasses a variety of techniques, including machine learning, deep learning, natural language processing, and network analysis, which can process and analyze large volumes of structured and unstructured data. By integrating financial records, market trends, social media activity, and management background information, AI systems can detect patterns and signals that may not be visible through conventional methods [3]. These technologies enable predictive modeling of company success, estimation of fair valuations, and simulation of portfolio outcomes under various scenarios. Additionally, AI can reduce cognitive bias by standardizing evaluation processes and providing consistent, data-driven recommendations. As a result, AI does not simply enhance traditional methods; it represents a paradigm shift toward systematic, adaptive, and evidence-based investment decision-making [4].

Table 1 illustrates the differences between traditional and AI-driven decision-making approaches in primary market investment. The comparison highlights key distinctions in data processing, risk assessment, decision speed, and adaptability. While traditional approaches rely on manual analysis and heuristic judgment, AI-driven approaches leverage automated data processing, predictive modeling, and real-time analytics, offering more scalable and objective decision-making capabilities [5].

Table 1. Traditional vs AI-Driven Investment Decision-Making.

Feature	Traditional Approach	AI-Driven Approach
Data processing	Manual, limited scale	Automated, large-scale
Risk assessment	Heuristic, subjective	Predictive modeling, data-driven
Decision speed	Slow, sequential	Real-time, continuous
Bias susceptibility	High	Reduced through algorithmic guidance
Adaptability	Low, experience-dependent	High, can learn from new data

This framework sets the stage for exploring AI-driven approaches in subsequent sections, focusing on their applications, models, and integration into primary market investment decision-making.

2. Literature Review

2.1. AI in Financial Markets

Artificial intelligence has been widely adopted in financial markets, particularly in areas such as algorithmic trading and automated investment advisory services. In algorithmic trading, AI systems analyze large volumes of market data in real time, detecting patterns and trends that are difficult for human traders to identify. These systems can execute trades automatically, optimize trade timing, and minimize transaction costs. Machine learning models can adapt to changing market conditions, improving performance over time as more data becomes available [6].

In investment advisory, AI-powered tools, commonly referred to as robo-advisors, provide automated portfolio recommendations based on client profiles, risk preferences, and market conditions. These systems combine predictive analytics with optimization algorithms to suggest investment strategies tailored to individual investors. By automating repetitive analysis and decision-making tasks, AI improves efficiency, reduces human error, and allows financial professionals to focus on higher-level strategy. The success of AI in these areas demonstrates its potential to process complex information quickly and consistently, laying the groundwork for application in primary market investment [7].

2.2. AI in Venture Capital and Private Equity

In venture capital and private equity, AI is increasingly used to enhance decisionmaking across the investment lifecycle. One of the primary applications is predictive analysis, where AI models estimate the probability of startup success, project growth trajectories, and forecast potential returns. By integrating financial data, market trends, team background information, and industry signals, these models provide a more comprehensive assessment than traditional heuristics alone.

AI also assists in deal sourcing by identifying promising startups through pattern recognition and network analysis. Graph-based techniques can map relationships among investors, companies, and industries, highlighting potential investment opportunities that may not be immediately visible. Natural language processing enables AI systems to evaluate pitch documents, reports, and other textual information, extracting insights about business models, market positioning, and competitive advantages [8].

In portfolio management, AI supports risk assessment, scenario simulation, and ongoing monitoring of investments. Automated systems can detect early warning signs, such as financial anomalies or market shifts, allowing investors to adjust strategies proactively. By integrating AI into due diligence and operational monitoring, venture capital and private equity firms can streamline decision-making, reduce human bias, and optimize investment outcomes [9].

2.3. Research Gaps

Despite growing adoption, AI applications in primary market investment face several challenges. First, data integration is complex due to the heterogeneous nature of available information. Investors must combine structured financial data with unstructured textual data, social media signals, and industry-specific indicators. Effectively integrating these diverse sources is critical to building accurate and reliable models.

Second, model interpretability remains a major concern. Many AI approaches, especially deep learning and ensemble models, operate as black boxes, making it difficult to understand how predictions are generated. In primary market investment, where committees and stakeholders require transparency, lack of interpretability can hinder adoption and limit trust in AI recommendations [10].

Third, most AI models are trained on historical data from specific industries or regions, which may limit their generalizability. The performance of a model in one context may not translate well to another, making it important to design flexible and adaptable frameworks [11].

Table 2 summarizes AI applications across different stages of primary market investment, highlighting their respective benefits and limitations. AI techniques vary in their usefulness depending on the stage, from deal sourcing and due diligence to post-investment monitoring and exit planning. This overview emphasizes the need for systematic frameworks that integrate multi-stage AI applications while addressing interpretability and data integration challenges.

 Table 2. AI Applications Across Different Investment Stages.

Investment Stage	AI Applications	Key Benefits	Limitations
Deal Sourcing	Pattern recognition, network analysis	Efficient identification of opportunities, reduced human bias	Limited data, false positives
Due Diligence	Predictive modeling, anomaly detection	Faster evaluation, improved risk assessment	Black-box models, data dependency
Investment Decision	Portfolio optimization, scenario simulation	Data-driven decision support, bias reduction	Overfitting, reliance on historical trends

Post-			Integration complexity,
Investment	Automated KPI	Early risk detection,	maintenance
Monitoring	tracking, alerts	operational efficiency	requirements
	Valuation forecasting,	Optimized exit strategies,	Volatility, model
Exit Planning		higher returns	generalization
	analytics		challenges

The exploration of AI applications across these stages demonstrates how AI can transform traditional investment processes into systematic, data-driven practices. The next section will examine the specific frameworks and techniques for implementing AI-driven decision-making in primary market investments, focusing on data acquisition, modeling, and decision support systems.

3. AI-Driven Investment Decision Framework

3.1. Data Acquisition and Integration

The foundation of AI-driven investment decision-making lies in the effective acquisition and integration of diverse data sources. In the primary market, information comes from multiple channels, including financial statements, business plans, management profiles, market reports, industry databases, news articles, and social media activity. Each of these sources provides unique insights into company performance, market trends, and potential risks. Collecting such data requires automated scraping, structured reporting systems, and APIs that can gather real-time information from various platforms.

Once acquired, the data must be cleaned and structured to ensure accuracy and consistency. Raw data often contains missing values, inconsistencies, or unstructured text that cannot be directly analyzed by machine learning models. Preprocessing steps include normalization of financial metrics, extraction of features from textual documents using natural language processing, and encoding of categorical variables. Integration also involves aligning temporal sequences, resolving discrepancies across sources, and constructing a unified dataset suitable for modeling. Effective data integration ensures that AI models can leverage the full spectrum of available information, capturing complex relationships and patterns that are critical for investment decision-making [12].

3.2. AI Modeling Techniques

AI modeling techniques form the core of the decision-making framework. Several methods are particularly relevant to primary market investment. Machine learning algorithms, such as random forests, gradient boosting, and support vector machines, can predict company success probabilities, evaluate financial health, and estimate potential returns. These models excel at identifying non-linear patterns and interactions in numerical and categorical data.

Deep learning techniques, including feedforward neural networks and recurrent neural networks, are used to model more complex relationships, particularly when dealing with high-dimensional or time-series data. Deep learning can uncover subtle patterns in financial trends, market dynamics, and historical performance that traditional statistical models may overlook [13].

Natural language processing is essential for extracting insights from unstructured text, such as pitch decks, management reports, and social media discussions. By analyzing textual information, NLP models can assess sentiment, detect emerging risks, and evaluate the credibility and competence of management teams.

Graph neural networks provide a unique approach for modeling relational data, such as networks of investors, startups, and industry connections. These models can identify clusters, influence patterns, and potential investment opportunities that may not be apparent through individual data points. By capturing both direct and indirect

relationships, GNNs enhance the ability to forecast company performance and portfolio dynamics.

The combination of these AI techniques enables a multi-dimensional evaluation of investment opportunities. Models can be trained to estimate probabilities of success, project valuations, simulate growth trajectories, and assess risk exposure under various scenarios. Each modeling approach contributes a distinct analytical capability, allowing decision-makers to benefit from a holistic, data-driven perspective [14].

3.3. Decision Support System

AI models are integrated into a decision support system that aids investors in identifying, evaluating, and managing opportunities in the primary market. The system typically consists of three main components: investment opportunity screening, risk assessment, and portfolio optimization.

Investment opportunity screening involves ranking potential targets based on predicted success probabilities, market potential, and alignment with investment criteria. AI models can automatically filter large volumes of data, highlight high-potential startups, and reduce human bias in selection. This process enhances efficiency and ensures that opportunities are not overlooked due to resource constraints or subjective judgment.

Risk assessment leverages predictive analytics to identify potential financial, operational, or market risks. Scenario simulations allow investors to evaluate how changes in economic conditions, industry trends, or company performance could impact returns. Early detection of risk signals enables proactive mitigation strategies, reducing potential losses and improving portfolio stability.

Portfolio optimization is another critical function of the system. AI algorithms can balance risk and return by recommending allocation strategies across multiple investments. The system can continuously update recommendations based on new data, market developments, or changes in portfolio performance. This dynamic capability ensures that investment decisions remain adaptive and aligned with strategic objectives.

Table 3 provides a summary of AI modeling techniques and their corresponding decision-support functions. It highlights how different models contribute to screening, risk assessment, and portfolio management, emphasizing their complementary roles in enhancing investment decision-making.

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Table 3. AI Models ar	d Decision-Support Functions.

AI Model	Data Input	Decision-Support Function	Examples
Machine	Financial metrics,	Success prediction,	Random forests,
Learning	categorical data	valuation estimation	gradient boosting
Deep Learning	Time-series data, high-dimensional features	Performance forecasting, trend analysis	Neural networks, recurrent networks
Natural Language Processing	Text documents, reports, social media	Sentiment analysis, management evaluation	Text embeddings, sentiment scoring
Graph Neural	Investor-startup-	Opportunity identification,	Node embeddings,
Networks	industry networks	network influence analysis	community detection

The framework illustrates how AI integrates multi-source data, sophisticated modeling techniques, and decision-support systems to create a comprehensive, adaptive, and scalable investment process. The following section will explore real-world implementations and case studies, demonstrating how these techniques are applied in practice to improve efficiency, reduce bias, and optimize outcomes in primary market investments.

4. Case Studies and Industry Applications

The application of AI in primary market investment has been increasingly demonstrated through the practices of venture capital (VC) and private equity (PE) firms around the world. Several leading investment institutions have incorporated AI technologies into their decision-making processes, using predictive models, natural language processing, and network analytics to enhance deal sourcing, due diligence, and portfolio management. In VC contexts, AI systems are employed to screen large volumes of startup applications, evaluating potential based on financial indicators, market trends, founder backgrounds, and textual information from pitch materials. This allows investment teams to focus on the most promising opportunities while reducing manual effort and subjective judgment.

Private equity firms have also begun to leverage AI for portfolio optimization and operational monitoring. Machine learning models are used to predict company performance, simulate financial outcomes under various market scenarios, and detect anomalies in operational metrics. Graph-based models help identify hidden relationships between firms, investors, and industry networks, which can reveal potential acquisition targets or strategic partnerships. By integrating these tools into their workflows, PE firms can improve the precision of investment decisions and proactively manage portfolio risks.

The experiences of these institutions reveal both successes and challenges in AI adoption. On the positive side, AI-driven deal screening has enabled firms to process significantly larger datasets than would be feasible manually, uncovering high-potential startups that might otherwise have been overlooked. Predictive models have improved the accuracy of success forecasts and valuation estimates, allowing investment committees to allocate capital more efficiently. Portfolio optimization algorithms have enhanced risk-adjusted returns by continuously updating investment strategies based on real-time data, reducing exposure to adverse market developments.

However, the deployment of AI also presents challenges. Some models have produced misleading predictions when data quality was poor or when historical patterns failed to reflect future market conditions. Black-box algorithms sometimes make it difficult for investment teams to understand the rationale behind recommendations, creating friction during committee reviews. Furthermore, overreliance on automated systems can potentially overlook qualitative factors, such as founder charisma, strategic vision, or industry-specific nuances, which remain critical in early-stage investment decisions. Balancing AI insights with human judgment remains an essential consideration for effective adoption.

The impact of AI on investment workflow efficiency is particularly notable. By automating routine tasks such as data collection, document analysis, and initial scoring of opportunities, firms can significantly reduce the time required for initial evaluation. This accelerated screening process allows more startups to be considered, improving the probability of identifying high-quality investment targets. Risk assessment and scenario simulation powered by AI also enhance the speed and accuracy of decision-making, enabling investment committees to respond more effectively to changing market conditions.

In terms of accuracy, AI models provide more consistent and data-driven assessments than purely manual evaluations. Predictive analytics help standardize criteria across investments, reducing the influence of individual biases and subjective judgment. Multi-dimensional analysis, incorporating financial metrics, textual sentiment, and network relationships, allows for a more holistic understanding of opportunities and risks. This systematic approach enhances the likelihood of selecting investments with strong growth potential while mitigating unforeseen risks.

Overall, these case studies demonstrate that AI has the potential to transform primary market investment from a labor-intensive, subjective process into a more efficient, systematic, and evidence-driven practice. The integration of AI facilitates improved

screening, more accurate forecasting, and dynamic portfolio management. At the same time, lessons learned from these applications highlight the importance of data quality, model interpretability, and the complementary role of human expertise. The next section will examine the challenges associated with AI adoption in primary market investment and explore emerging trends that address these issues, providing a roadmap for the continued evolution of AI-driven investment practices.

5. Challenges and Future Directions

5.1. Challenges

Despite the growing adoption of AI in primary market investment, several challenges limit its full potential. One of the primary issues is data quality. Investment decisions rely on accurate, complete, and timely information. In the primary market, data often come from heterogeneous sources, including financial statements, market reports, news articles, social media, and internal company records. These sources may contain missing, inconsistent, or noisy information, which can degrade the performance of AI models. The lack of standardized reporting practices, particularly among early-stage startups, further complicates data collection and integration.

Data privacy and security also present significant challenges. Sensitive information about startups, investors, and financial transactions must be protected throughout the data processing and modeling stages. Ensuring compliance with privacy regulations and safeguarding against potential breaches requires robust data governance frameworks. Failure to address these concerns can limit data availability, reduce model effectiveness, and create legal risks.

Model interpretability is another key challenge. Advanced AI techniques, such as deep learning and ensemble models, often operate as black boxes. While these models can achieve high predictive accuracy, the inability to explain decision-making processes poses difficulties for investment committees and regulatory compliance. Decision-makers require transparency to justify capital allocation, assess risk exposure, and evaluate model reliability. Without interpretable models, adoption may be constrained despite technological advantages.

Talent gaps further complicate AI integration. Developing, deploying, and maintaining sophisticated AI systems requires expertise in data science, machine learning, finance, and domain-specific knowledge. Many investment institutions lack sufficient inhouse talent to manage these systems effectively, creating reliance on external consultants or limiting the scope of AI applications. Recruiting and retaining skilled professionals remains a significant barrier to scaling AI-driven investment processes.

Legal and ethical considerations also shape the adoption of AI in investment. Questions about algorithmic bias, fairness, and accountability arise when AI models influence high-stakes financial decisions. For instance, models trained on historical data may inadvertently perpetuate biases in funding allocation or risk assessment. Establishing ethical frameworks and regulatory guidelines is essential to ensure responsible AI use while maintaining investor confidence.

5.2. Future Directions

Addressing these challenges opens opportunities for innovation and improvement in AI-driven investment. One emerging direction is the integration of multi-modal data. Combining structured financial data, unstructured textual information, network relationships, and alternative signals such as social media or patent activity can enhance model accuracy and provide a more comprehensive view of investment opportunities. Multi-modal approaches enable the capture of complex patterns and interactions that single-source models might overlook.

Reinforcement learning represents another promising avenue. By simulating dynamic investment environments, reinforcement learning algorithms can continuously

learn and adapt strategies based on evolving market conditions and portfolio performance. This approach enables the development of adaptive investment strategies that respond proactively to changes, optimizing risk-adjusted returns over time.

Adaptive investment strategies are closely linked to human-AI collaboration. Rather than replacing human judgment, AI systems can serve as decision-support tools that augment investor expertise. By providing data-driven insights, scenario simulations, and risk assessments, AI enables investors to make more informed, timely, and strategic decisions. This human-AI synergy ensures that qualitative factors, such as founder vision and industry context, remain integrated into the decision-making process.

Explainable AI is also critical for the future of primary market investment. Techniques that increase transparency and interpretability, such as feature attribution, rule extraction, and visual analytics, can bridge the gap between predictive performance and human understanding. Explainable models facilitate trust, accountability, and regulatory compliance, promoting wider adoption across investment institutions.

Finally, the development of standardized frameworks for AI governance and ethical practice is essential. Clear guidelines for data privacy, model validation, bias mitigation, and accountability will help institutions implement AI responsibly while reducing operational and legal risks. As AI continues to evolve, the combination of technical innovation, human expertise, and ethical oversight will define the next generation of primary market investment strategies.

The exploration of challenges and future directions illustrates that AI-driven investment is a dynamic, evolving field. Advancements in multi-modal data integration, reinforcement learning, adaptive strategies, explainable AI, and human-AI collaboration promise to enhance efficiency, accuracy, and decision quality in primary market investments. The final section will synthesize insights from the previous chapters and highlight the transformative potential of AI technologies in shaping the future of investment decision-making.

6. Conclusion

Artificial intelligence is reshaping primary market investment by introducing datadriven, systematic, and intelligent decision-making processes. Through the integration of multi-source data, advanced modeling techniques, and decision-support systems, AI enhances the efficiency, accuracy, and scalability of investment evaluation. Traditional reliance on manual analysis and subjective judgment is increasingly supplemented or replaced by automated screening, predictive analytics, and portfolio optimization, allowing investors to identify high-potential opportunities more effectively and manage risk proactively.

The innovation brought by AI extends across the entire investment lifecycle. In deal sourcing, AI enables the rapid evaluation of a large number of opportunities, highlighting promising targets that might otherwise be overlooked. During due diligence, predictive models and natural language processing provide deeper insights into financial performance, market positioning, and management quality. In portfolio management, scenario simulation and optimization algorithms facilitate dynamic allocation strategies, supporting more informed and adaptive decision-making.

Looking ahead, advancements in multi-modal data integration, reinforcement learning, explainable AI, and human-AI collaboration are expected to further transform primary market investment. These developments will enhance the transparency, interpretability, and adaptability of AI-driven systems, enabling investors to make more strategic decisions while maintaining oversight and accountability. The continued evolution of AI technologies promises to establish a new paradigm in investment decision-making—one that is intelligent, systematic, and capable of generating superior value in increasingly complex and competitive markets.

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