

# **AI Transparency Blockchain Market Forecasts to 2032 – Global Analysis By Component (Platform and Services), Technology, Organization Size, Deployment Mode, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global AI Transparency Blockchain Market is accounted for \$78.62 million in 2025 and is expected to reach \$383.39 million by 2032 growing at a CAGR of 25.4% during the forecast period. AI Transparency Blockchain combines blockchain with artificial intelligence to boost clarity, accountability, and trustworthiness. It records AI data, decisions, and processes on a secure, unchangeable ledger, allowing for thorough audits and verification. This helps solve the issue of opaque AI systems by making their operations traceable and compliant with regulations. It promotes responsible AI use, especially in sensitive industries like finance, healthcare, and autonomous technologies, where transparency is vital.

According to CAICT, China has more than 33,000 active registered companies developing blockchain technology and services.

Market Dynamics:

Driver:

Rising need for auditable and explainable AI

As AI systems become more integrated into vital sectors, the call for clarity and accountability in their operations is growing louder. Stakeholders across industries are pushing for models that can be clearly understood and independently verified. Blockchain's ability to create tamper-proof records makes it a powerful tool for

enhancing AI transparency. This combination is sparking new developments in ethical AI and regulatory compliance. Concerns over biased algorithms and hidden decision-making processes have made explainability a top priority. Consequently, the market is evolving toward solutions that merge blockchain with AI to ensure fairness and traceability.

Restraint:

Public perception and lack of understanding

Although the technology is advancing rapidly, many people still find blockchain and AI concepts confusing or intimidating. Misunderstandings about how these systems work especially around privacy and decentralization can lead to hesitation and mistrust. Skepticism about the reliability and scalability of these technologies is common among non-experts. This knowledge gap can slow down regulatory progress and reduce investor confidence. Without better education and outreach, user adoption may remain limited. Bridging this divide is essential for unlocking the full potential of transparent AI systems.

Opportunity:

Decentralized AI marketplaces

Decentralized AI platforms are opening up new possibilities for equitable access to intelligent technologies. These marketplaces allow creators to share and monetize AI models securely using blockchain-based contracts. Users benefit from being able to verify the origin, performance, and ethical standards of models before using them. This fosters a more open and collaborative innovation environment. By reducing centralized control, these platforms encourage broader participation and creativity. As trust in these systems grows, they could become key drivers of a more inclusive and transparent AI economy.

Threat:

Data storage limitations

Blockchain's inherent limitations in storing large volumes of data pose a significant challenge to AI transparency efforts. AI systems often require vast datasets for training and validation, which are difficult to manage on-chain due to cost and scalability

constraints. Off-chain storage solutions introduce risks of data tampering and reduced auditability. This technical bottleneck may slow down the integration of blockchain into AI workflows. Moreover, balancing decentralization with performance remains a complex issue for developers and enterprises. Without breakthroughs in storage efficiency and hybrid architectures, the market could face stagnation in scalability and adoption.

#### Covid-19 Impact:

The pandemic caused delays in blockchain-AI projects as teams faced logistical challenges and shifting priorities. Many initiatives were paused while attention turned to managing the global health crisis. However, the need for reliable and transparent data systems became more apparent during this time. Governments and organizations began exploring blockchain-backed AI for secure and ethical decision-making. As the world adjusted post-pandemic, investment in trustworthy tech solutions gained momentum. This renewed focus is now fueling growth in the AI transparency blockchain sector.

The platform segment is expected to be the largest during the forecast period

The platform segment is expected to account for the largest market share during the forecast period, fuelled by the integration of advanced technologies such as machine learning, NLP, and computer vision, which require secure and transparent infrastructures. Trends like decentralized AI and instant data validation are gaining momentum. Notable innovations include automated smart contracts, cloud-based data exchange, and scalable deployment models. These platforms are essential for organizations aiming to build trustworthy, compliant AI systems in an increasingly complex digital environment.

The retail & E-commerce segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the retail & E-commerce segment is predicted to witness the highest growth rate, driven by AI and blockchain, with a strong focus on transparency, personalization, and secure digital interactions. Cutting-edge tools like generative AI, AR shopping, and voice-enabled platforms are redefining customer experiences and streamlining operations. Blockchain adds trust through traceable transactions and decentralized loyalty systems. Notable advancements include smart pricing algorithms, predictive demand forecasting, and enhanced supply chain tracking collectively driving

a more seamless, intelligent, and efficient digital commerce ecosystem.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, owing to the need for secure, transparent, and efficient digital frameworks. Technologies like machine learning, NLP, and blockchain are at the forefront. Trends include AI-driven smart contracts, secure cloud infrastructures, and blockchain-enabled data exchange. Significant progress is seen in China's telecom sector, India's fintech growth, and Japan's automation initiatives. With rising investments, supportive policies, and educational efforts, adoption is accelerating across industries like finance, healthcare, and manufacturing.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, fuelled by the integration of AI technologies like natural language processing and machine learning with blockchain, ensuring secure and traceable data handling. Notable advancements include widespread use of smart contracts and cloud infrastructure in sectors such as healthcare and finance. Trends like secure data monetization and context-aware systems are emerging rapidly. Strong investment activity and growing demand for automated, transparent solutions are encouraging both start-ups and large corporations to adopt blockchain-powered AI platforms.

Key players in the market

Some of the key players in AI Transparency Blockchain Market include IBM, Ocean Protocol, Microsoft, NeuroChain Tech, Oracle, Cyware, SAP, BurstIQ, Amazon Web Services, Fetch.ai, Intel, Bitfury, Accenture, Wipro, Hewlett Packard Enterprise, Tata Consultancy Services, and Infosys.

Key Developments:

In August 2025, SAP and SmartRecruiters announced that SAP has entered into an agreement to acquire SmartRecruiters, a leading talent acquisition (TA) software provider. SmartRecruiters' deep expertise in high-volume recruiting, recruitment automation and AI-enabled candidate experience and engagement are considered an ideal addition to the SAP SuccessFactors human capital management (HCM) suite.

In June 2025, Oracle and Nextcloud announced a partnership that will bring Nextcloud Hub, an open-source content collaboration platform that enables teams to collaborate across mobile, desktop, and web interfaces, to Oracle Cloud Infrastructure (OCI). Government and enterprise customers will be able to deploy Nextcloud Hub across OCI's sovereign cloud solutions, including public, government, dedicated, and air-gapped regions.

In June 2025, BurstIQ announced that it has joined the Amazon Web Services (AWS) Partner Network (APN). The APN is a global community of AWS Partners that leverage programs, expertise, and resources to build, market, and sell customer offerings. As an APN member, BurstIQ is also making its LifeGraph® platform available in AWS Marketplace.

#### Components Covered:

Platform

Services

#### Technologies Covered:

Machine Learning (ML)

Natural Language Processing (NLP)

Context-aware Computing

Computer Vision

Other Technologies

#### Organization Sizes Covered:

Small & Medium Enterprises (SMEs)

Large Enterprises

**Deployment Modes Covered:**

Cloud

On-Premises

**Applications Covered:**

Smart Contracts

Data Security

Payment &amp; Settlement

Data Sharing/Communication

Business Process Optimization

Asset Tracking &amp; Management

Logistics &amp; Supply Chain Management

Other Applications

**End Users Covered:**

BFSI

Healthcare &amp; Life Sciences

Retail &amp; E-commerce

Manufacturing &amp; Supply Chain

Government &amp; Public Sector

IT &amp; Telecom

Energy & Utilities

Media & Entertainment

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market

estimations

- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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