

# Explainable AI Market to Hit \$22.1B by 2031, Driven by Demand for Transparency, Regulation, and Ethical AI

*Explainable AI Market set to hit US\$ 22.1 Bn by 2031, fueled by growing demand for transparency, compliance, and ethical AI in critical decision-making.*

AUSTIN, TX, UNITED STATES, August 7, 2025 /EINPresswire.com/ -- The [Explainable AI \(XAI\) Market](#) reached US\$ 5.2 billion in 2023 and is projected to grow significantly, reaching US\$ 22.1 billion by 2031. This represents a compound annual growth rate (CAGR) of 20.2% during the forecast period from 2024 to 2031. As artificial intelligence continues to be embedded into critical decision-making systems, the demand for transparency, trust, and ethical accountability is driving the rapid adoption of XAI solutions.



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The Explainable AI market will grow from \$5.2B in 2023 to \$22.1B by 2031 at a 20.2% CAGR - transparency, trust, and accountability are now non-negotiable in intelligent systems.”

*DataM Intelligence*

## Market Dynamics:

1. The primary force behind this growth is the global demand for transparency in AI models. With organizations increasingly leveraging AI for high-stakes decisions such as credit scoring, medical diagnoses, fraud detection, and hiring black-box algorithms are facing pushback from regulators, stakeholders, and users. Explainable AI enables organizations to interpret, understand, and justify

machine-driven outcomes, which is essential in regulated sectors like finance, healthcare, and defense.

2. Furthermore, as AI becomes more complex particularly with deep learning and generative models the need for explainability intensifies. Businesses are shifting their focus toward models that not only perform well but are also understandable by non-technical stakeholders.

3. Growing regulatory frameworks are also pushing companies to adopt explainability in AI systems. Laws concerning AI ethics, consumer rights, and data transparency are becoming stricter across continents, which encourages companies to choose interpretable solutions over opaque ones.

4. Another key driver is the surge in AI integration with Internet of Things (IoT) devices. From smart cities to connected vehicles, AI algorithms are being used in real-time decision-making environments. Explainability in such contexts is crucial for user trust and safety.

#### Investment Landscape:

Investments in XAI-related technologies are accelerating. Tech giants, startups, and academic institutions are pouring resources into developing explainable algorithms, visualization tools, and model interpretability frameworks. Companies are also partnering with consulting firms and AI labs to embed explainability features into their products and services.

In parallel, governments and research bodies are funding innovation in XAI for public sector applications such as surveillance, national security, and healthcare. The clear alignment of XAI with ethical AI initiatives makes it a high-priority investment area in both public and private sectors.

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#### Market Key Players in Explainable AI Market:

Kyndi  
Alphabet, Inc.  
IBM Corporation  
Microsoft Corporation  
Amelia US LLC  
BuildGroup  
DataRobot, Inc.  
Ditto AI Ltd  
DarwinAI  
Factmata

#### Market Segmentation:

By Offering: Solution, Services.

By Deployment: Cloud, On-premises.

By Organization Size: Small and Medium-sized Enterprises, Large Enterprises.

By Technology: Machine Learning (ML), Natural Language Processing (NLP), Computer Vision, Big Data Analytics, Others.

By Application: Fraud and Anomaly Detection, Drug Discovery and Diagnostics, Predictive Maintenance, Supply Chain Management, Identity and Access Management, Others.

By End-User: Healthcare, BFSI, Aerospace and Defense, Retail and E-commerce, Public Sector and Utilities, IT and Telecommunication, Automotive, Others.

By Region: North America, Europe, South America, Asia Pacific, Middle East, and Africa.

## Regional Outlook:

North America holds the largest share of the global XAI market, owing to the presence of major tech companies, robust research infrastructure, and progressive regulations that prioritize AI accountability. The United States, in particular, is investing heavily in defense-grade and enterprise-grade explainable AI systems.

Europe follows closely, with strong policy initiatives around AI ethics and digital sovereignty. Countries like Germany, France, and the UK are promoting responsible AI development and implementation.

Asia-Pacific is expected to witness the fastest growth, driven by digital transformation across Japan, South Korea, China, and India. The region's growing technological maturity and investment in AI-powered solutions are pushing companies to adopt explainable models, especially in healthcare, automotive, and manufacturing sectors.

## Latest News – USA

1. In recent months, the United States has made significant strides in Explainable AI. Regulatory bodies have introduced stronger frameworks emphasizing fairness, explainability, and accountability in AI systems used by businesses and government agencies. Explainability is now being viewed not just as a technical feature, but a legal and ethical necessity.

2. A leading American medical association recently introduced policies that require all clinical decision-support AI tools to be interpretable by both physicians and patients. This aligns with the national agenda to prioritize patient safety and informed consent in healthcare technology.

3. Additionally, a U.S.-based defense technology startup secured a landmark patent for a hallucination-resistant explainable AI model highlighting innovation in mission-critical AI systems. This development is seen as a breakthrough for military, aerospace, and high-security applications.

4. Tech companies in Silicon Valley are also integrating XAI into their core platforms. From cloud infrastructure providers to enterprise software vendors, the emphasis on explainability is reshaping product roadmaps across the AI ecosystem.

#### Latest News – Japan

1. Japan has emerged as a significant contributor to the explainable AI revolution in Asia. In mid-2025, the launch of a new industrial alliance specifically focusing on AI transparency marked a key milestone. The alliance introduced a novel programming framework and explainability agent tailored for industrial and government use.

2. Japanese corporations are also incorporating XAI into marketing and consumer analytics. A large advertising conglomerate initiated a project to generate interpretable models in real-time, aiming to speed up data-driven marketing decisions while retaining transparency.

3. Researchers from a top Japanese university also unveiled a maritime navigation AI system that explains its route choices and risk assessments. This system is designed to help improve safety in autonomous shipping—a key focus area for Japan given its maritime trade dependency.

4. Japan's government and academic institutions are further pushing R&D in explainability through smart city initiatives, with the goal of building AI systems that are safe, ethical, and trusted by citizens.

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#### Conclusion:

The Explainable AI market is not just a trend, it's becoming a necessity. As AI becomes deeply integrated into every part of our lives, from healthcare and banking to defense and retail, understanding how decisions are made is no longer optional. The market's growth from US\$ 5.2 billion in 2023 to a projected US\$ 22.1 billion by 2031 showcases how important transparency and trust have become in the AI world.

With regulatory support, technological breakthroughs, and growing user awareness, the demand for explainable AI is poised to reshape the AI landscape globally. Both the USA and Japan are leading the charge, setting examples of how innovation and responsibility can go hand-in-hand in the age of intelligent systems.

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