AI-enabled Biometric Market: Global Industry Analysis, Trends, Market Size, and Forecasts up to 2030

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Report description:

The report on the global AI-enabled biometric market provides qualitative and quantitative analysis for the period from 2021-2030. The global AI-enabled biometric market was valued at USD 10.9 billion in 2022 and is expected to reach USD 30.90 billion in 2030, with a CAGR of 14.8% during the forecast period 2023-2030. The study on AI-enabled biometric market covers the analysis of the leading geographies such as North America, Europe, Asia Pacific, and RoW for the period of 2021-2030.
AI-driven biometric systems have the potential to enhance conventional methods by capturing and utilizing data, offering significant advantages in the realm of Artificial Intelligence (AI). As AI continues to advance in terms of performance, speed, accuracy, and security, its integration spans various industries and research domains. Biometrics, a form of identification based on unique physical, behavioral, or biological traits, benefits from AI-enabled authentication capabilities. This technology minimizes human error, accelerates decision-making processes, and enhances security, creating formidable barriers against potential breaches. The introduction of AI-powered systems, such as facial recognition, poses new challenges for preserving criminal procedure rights, while AI-based face and music biometric technologies contribute to evolving customer behavior and enrich the existing literature on the subject. The AI-enabled biometric systems market is experiencing rapid growth, driven by advancements in artificial intelligence. These systems leverage unique physical, behavioral, or biological traits for secure identification. With enhanced performance, accuracy, and security, AI-driven biometrics find applications across industries, revolutionizing authentication capabilities. The market expansion is fueled by the increasing demand for reliable, efficient, and secure identity verification solutions, reflecting a broader trend toward the integration of AI in biometric technologies.
The escalating need for advanced security solutions is driving the growth of the AI-enabled biometric systems market. With rising concerns over identity theft, cyber threats, and unauthorized access, industries seek more sophisticated authentication methods. AI-driven biometric systems offer unparalleled accuracy and efficiency in recognizing unique traits, mitigating human error, and enhancing security. The growing adoption of these systems across sectors, including finance, healthcare, and government, is propelled by their ability to provide seamless, reliable, and tamper-resistant identity verification. As businesses prioritize robust security measures, the demand for AI-enabled biometric systems continues to surge, driving innovation and market expansion.
Additionally, the integration of AI-enabled biometric systems with the Internet of Things (IoT) is a significant driver for market growth. As IoT devices become more prevalent, the need for secure and seamless user authentication rises. AI-driven biometric

solutions offer robust identity verification, enhancing the overall security of interconnected systems. This integration facilitates frictionless and secure access across smart homes, healthcare devices, and various IoT applications. The growing interconnected landscape amplifies the demand for AI-enabled biometric systems, making them instrumental in ensuring the integrity and confidentiality of user data in a hyper-connected world. However, concerns over privacy and ethical implications restrain the AI-enabled biometric systems market. Furthermore, the increasing demand for advanced authentication solutions and enhanced security across various industries creates a lucrative opportunity for growth of the market. As organizations prioritize technological innovation, the market is poised to expand, meeting the evolving needs for secure and efficient identity verification solutions.

North America is projected to hold the most prominent market share in the upcoming forecast period. This dominance can be attributed to the North America early adoption of advanced technologies, robust research and development activities, and a high level of awareness regarding the importance of biometric security. Major players and technology innovators in the AI and biometric sectors are concentrated in North America, fostering the rapid integration of these solutions. Additionally, stringent regulatory frameworks and a proactive approach toward cybersecurity further drive the demand for AI-enabled biometric systems in the region. The continuous advancements in artificial intelligence, coupled with a strong technology infrastructure, position North America as a key influencer and leader in the global AI-enabled biometric market. Moreover, the Asia-Pacific region stands out as the fastest-growing in the AI-enabled biometric systems market during the forecast period. This growth is propelled by rapid technological advancements, increasing digitization, and a surge in demand for robust security solutions across sectors like finance, healthcare, and government. Countries like China and India are investing significantly in biometric technology, driven by government initiatives, rising security concerns, and the integration of AI for enhanced authentication. Along with this, the region large population and expanding middle class contribute to the adoption of biometric systems in various applications, further fueling the market accelerated growth in the Asia-Pacific region.

Report Findings

1)Drivers

-The escalating need for advanced security solutions is driving the growth of the AI-enabled biometric systems market.

-The integration of AI-enabled biometric systems with the Internet of Things (IoT) is a significant driver for market growth.

2)Restraints

-The concerns over privacy and ethical implications restrain the AI-enabled biometric systems market.

3)Opportunities

-The increasing demand for advanced authentication solutions and enhanced security across various industries creates a lucrative opportunity for growth of the market.

Research Methodology

A) Primary Research

Our primary research involves extensive interviews and analysis of the opinions provided by the primary respondents. The primary research starts with identifying and approaching the primary respondents, the primary respondents are approached include

1. Key Opinion Leaders associated with Infinium Global Research
2. Internal and External subject matter experts
3. Professionals and participants from the industry

Our primary research respondents typically include

1. Executives working with leading companies in the market under review
2. Product/brand/marketing managers
3. CXO level executives
4. Regional/zonal/ country managers
5. Vice President level executives.

B) Secondary Research

Secondary research involves extensive exploring through the secondary sources of information available in both the public domain and paid sources. At Infinium Global Research, each research study is based on over 500 hours of secondary research accompanied by primary research. The information obtained through the secondary sources is validated through the crosscheck on various data sources.

The secondary sources of the data typically include

1. Company reports and publications
2. Government/institutional publications
3. Trade and associations journals
4. Databases such as WTO, OECD, World Bank, and among others.
5. Websites and publications by research agencies

Segment Covered

The global AI-enabled biometric market is segmented on the basis of technology, application, and end user.

The Global AI-enabled Biometric Market by Technology

- Face Recognition
- Fingerprint Recognition
- Iris Recognition
- Voice Recognition
- Others (Fingerprint and palm recognition, Ear acoustic recognition)

The Global AI-enabled Biometric Market by Application

- Mobile Biometrics and Smart Devices
- Biometric Access Control Systems
- Identity Verification and Authentication
- Surveillance and Security
- Others

The Global AI-enabled Biometric Market by End User

- Healthcare
- Banking and Finance
- BFSI
- Government
- Others

Company Profiles

The companies covered in the report include

- NEC Corporation
- Thales
- IDEMIA
- Fujitsu Ltd
- Leidos
- Nuance Communications, Inc
- Aware, Inc.
- FacePhi
- Cognitec Systems GmbH
- BioID

What does this Report Deliver?
1. Comprehensive analysis of the global as well as regional markets of the AI-enabled biometric market.
2. Complete coverage of all the segments in the AI-enabled biometric market to analyze the trends, developments in the global market and forecast of market size up to 2030.
3. Comprehensive analysis of the companies operating in the global AI-enabled biometric market. The company profile includes analysis of product portfolio, revenue, SWOT analysis and latest developments of the company.
4. IGR- Growth Matrix presents an analysis of the product segments and geographies that market players should focus to invest, consolidate, expand and/or diversify.

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