

Global AI-Based Biometric Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global AI-Based Biometric market size was valued at US\$ 39840 million in 2024 and is forecast to a readjusted size of USD 81250 million by 2031 with a CAGR of 10.8% during review period.

AI-based biometric systems refer to biometric authentication or identification systems that leverage artificial intelligence (AI) algorithms to analyze and understand biometric data for accurate recognition and verification. These systems use AI techniques like machine learning and deep learning to improve the accuracy, robustness, and efficiency of biometric authentication.

The global AI-based biometric market refers to the market for biometric systems that incorporate artificial intelligence (AI) technology for authentication and identification purposes. Biometrics involves the measurement and analysis of unique physical or behavioral characteristics of individuals, such as fingerprints, facial features, voice patterns, and behavioral traits. AI-based biometric systems leverage machine learning algorithms and deep learning techniques to enhance accuracy, speed, and security in biometric identification processes.

The AI-based biometric market has witnessed significant growth in recent years due to various factors. Firstly, the increasing need for robust security solutions across industries, such as banking, government, healthcare, and retail, has driven the adoption of AI-based biometric systems. These systems offer stronger security measures by verifying an individual's unique characteristics, minimizing the risk of identity fraud, and unauthorized access.

Secondly, advancements in AI algorithms and computer vision technology have

significantly improved the accuracy and reliability of biometric systems. AI-based biometric systems can adapt and learn from patterns in data, making them more accurate in identifying individuals and reducing false acceptance or rejection rates.

Furthermore, the COVID-19 pandemic has also accelerated the adoption of touchless biometric systems, such as facial recognition and iris scanning, to minimize physical contact and enhance hygiene in public spaces.

The global AI-based biometric market is expected to witness substantial growth in the coming years. According to market research reports, the market is projected to expand due to increasing investments in AI and biometric technologies, government regulations promoting biometric adoption, and the growing need for enhanced identity verification and authentication systems.

Additionally, the integration of AI-based biometric systems with other emerging technologies like cloud computing, blockchain, and Internet of Things (IoT) is expected to create new growth opportunities in the market.

In conclusion, the global AI-based biometric market is experiencing significant growth as organizations across various sectors recognize the importance of advanced security solutions. AI-based biometric systems offer enhanced accuracy, speed, and security for identification and authentication purposes. With advancements in AI algorithms and increasing adoption of touchless biometric systems, the market is expected to witness further growth in the coming years.

This report is a detailed and comprehensive analysis for global AI-Based Biometric market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI-Based Biometric market size and forecasts, in consumption value (\$ Million), 2020-2031

Global AI-Based Biometric market size and forecasts by region and country, in

consumption value (\$ Million), 2020-2031

Global AI-Based Biometric market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global AI-Based Biometric market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI-Based Biometric

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI-Based Biometric market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Safran, NEC, Fujitsu, Thales Group, Assa Abloy AB, M2SYS Technology, Inc., Aware, Inc., BioID, Cognitec Systems, CyberExtruder, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

AI-Based Biometric market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fingerprint Recognition

Iris Recognition

Face Recognition

Multi-Factor Authentication

Others

Market segment by Application

BFSI

Government

Automotive

Health Care

Military & Defence

Others

Market segment by players, this report covers

Safran

NEC

Fujitsu

Thales Group

Assa Abloy AB

M2SYS Technology, Inc.

Aware, Inc.

BioID

Cognitec Systems

CyberExtruder

FaceFirst

Gemalto (Thales Group)

Herta Security

IDEMIA

Innovatrics

NEC Corporation

Nuance Communications

Precise Biometrics

Suprema Inc.

Synaptics Inc.

Vision-Box

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe AI-Based Biometric product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI-Based Biometric, with revenue, gross margin, and global market share of AI-Based Biometric from 2020 to 2025.

Chapter 3, the AI-Based Biometric competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and AI-Based Biometric market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI-Based Biometric.

Chapter 13, to describe AI-Based Biometric research findings and conclusion.

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