

**India Biometrics Market By Solution Type (Fingerprint Recognition, Facial Recognition, Iris Scanner, Hand/Palm Recognition, Voice Recognition, Vein Scanner, Others), By Functionality Type (Contact Based, Contact Less, Hybrid), By End-Use Industry (Government and Defense, BFSI, Consumer Electronics, IT and Telecom, Healthcare and Lifesciences, Retail and E-commerce, Others), By Region, Competition Forecast and Opportunities, 2018-2028F**

Market Report (3 business days) | 2023-09-05 | 90 pages | TechSci Research

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**Report description:**

India Biometrics Market is anticipated to register a high CAGR in the forecast period of 2024-2028. The rising need to reduce growing security challenges and demand for automation in the workplace, are driving the market growth. Additionally, the India biometric market is expanding due to the high demand for identity-based IT solutions and advanced security measures to prevent online terrorism activities.

A biometric system uses a person's personal data to identify them, based on unique biological characteristics such as retinal identification, fingerprint, voice recognition, facial recognition, and vein patterns in the palm or fingers. Biometrics are widely used in various real-life applications, including personal recognition, identification, verification, and more. They may also be used for safety, security, permission, banking, crime prevention, forensics, medical applications, and communication.

The growing penetration of smartphones is leading to the rise of mobile biometrics and the need for enhanced security and authentication of access to confidential data and information, which is creating numerous growth opportunities for the Biometric Market in India. The consumers are progressively receiving diverse biometric means, for example, fingerprint, facial and voice acknowledgment to confirm their identity. There has been a surge in usage of biometric devices in services under various initiatives by the government of India, including UIDAI (Aadhar), E-Passport, RSBY (Rashtriya Swasthya Bima Yojna), driving

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permit, and different projects, which, in turn, will push the growth of the market in the coming years. With the increased adoption of mobile devices, consumer biometric applications have grown rapidly in recent years. Because of the adoption of biometric systems, the consumer electronics sector is dominated primarily by security and access control devices. As a result, it promotes market growth. For example, WhatsApp, a popular messaging app, has added a new privacy feature to the Android platform. According to the company, users will soon be able to secure their accounts through biometric authentication via fingerprint sensors.

#### Rise in Need to Reduce the Rising Security Challenges

There is an increased need to address the growing security challenges as data breaches and cyberattacks are becoming more frequent and attempt to jeopardize the personal information of millions of people. In May 2021, there were a record 116 million cyberattacks and data breaches. The development of biometric technology is a result of the fact that human error and bad passwords are to blame for 52% of data breaches. Therefore, to address the challenges of the security breach there is a development of biometric technology.

Biometrics is the technology of identifying and verifying individuals based on their physical or behavioral characteristics, such as fingerprints, face, voice, iris, or palm. Biometrics has been widely adopted in various sectors, such as government, banking, healthcare, and education, for enhancing security and convenience. The biometrics market is expected to grow at a significant rate in the coming years, owing to the rise in need to reduce the rising security challenges faced by organizations and individuals. The increasing incidents of identity theft, cyberattacks, fraud, and terrorism have created a demand for more robust and reliable authentication methods that can prevent unauthorized access and protect sensitive data. Biometrics offers a high level of accuracy and security, as well as user-friendly and cost-effective solutions, compared to traditional methods such as passwords, PINs, or tokens. Biometrics can also improve customer experience, operational efficiency, and regulatory compliance for various applications. Biometrics are specialized hardware sensors in mobile phones, fingerprint detectors, unique facial recognition cameras (3D), and iris recognition. Biometrics has grown in popularity in recent years, particularly with the introduction of two-factor authentication.

#### Rising Demand for Automation in the Workplace

Digitization helps companies in a wide range of ways, and modern working life has evolved dramatically in the last decade. Working habits and communications are more adaptable and digital than ever before, which is largely due to the millennial workforce's expansion. Moreover, traditional office space has also evolved into the digital collaborative working platforms. As a result, increasingly sophisticated access control and security products and systems are required. Therefore, biometrics plays a critical role in workplaces, both physically and digitally. The rising demand for workplace automation has fueled the biometric market in India. Because of its accuracy and security features, biometric technology, which involves the use of unique physical or behavioral traits to verify an individual's identity, has gained widespread popularity in recent years. Biometric technology is used in the workplace for a variety of purposes, including attendance tracking, access control, and employee monitoring. The adoption of automation in various industries has increased the demand for biometric technology in India. Furthermore, the Indian government has been encouraging the use of biometric technology for a variety of purposes, including the issuance of Aadhaar cards, which are biometric-based identification cards required for access to various government services. As a result, the biometric market in India has witnessed significant growth in recent years, and this trend is expected to continue in the future as more and more businesses and government agencies adopt biometric technology for various applications. This boost productivity and efficiency which eventually increases the demand for the biometrics market.

#### Data Safety and Security Concerns

Data security and safety is one of the biggest problems faced by biometrics. Biometrics are being implemented more often, and their varied applications have created data security and privacy challenges. Biometrics are vulnerable to attack and have flaws. For instance, it is occasionally possible to trick a biometric sensor by creating fake artefacts. The security of biometric systems is put at risk by this practice, known as spoofing. Some of the spoofing techniques can occasionally be counterintuitive because computer vision operates very differently from human vision. Data security and safety are indeed major concerns when it comes to biometric technology. Biometric data, which includes physical or behavioral characteristics such as fingerprints, iris scans, and facial recognition, is highly sensitive and can be used for identity theft and other fraudulent activities. There are several potential risks associated with biometric data, including hacking, data breaches, and unauthorized access. In addition, there is always a risk

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of errors and false positives in biometric systems, which can lead to denial of access or other problems. To address these concerns, it is important to implement robust security measures to protect biometric data. This can include encryption of data, multi-factor authentication, and regular audits and assessments of biometric systems. It is also important to ensure that biometric data is collected, stored, and transmitted securely, and that it is only used for authorized purposes. Overall, while biometric technology offers many benefits, it is important to be aware of the potential risks and to take steps to mitigate them in order to ensure the safety and security of biometric data.

#### Market Segmentation

India biometrics market can be segmented into solution type, functionality type, end-use industry, and region. Based on solution type, the market can be segmented into Fingerprint Recognition, Facial Recognition, Iris Scanner, Hand/Palm Recognition, Voice Recognition, Vein Scanner, Others. By functionality type, the market can be segmented into Contact Based, Contact Less, and Hybrid. By End-Use industry, the market can be segmented into Government and Defense, BFSI, Consumer Electronics, IT and Telecom, Healthcare and Lifesciences, Retail and E-commerce, Others.

#### Market Players

Major market players in the India Biometrics market are IDEMIA Identity & Security India Private Limited, SecuGen India Pvt. Limited, NEC India Pvt. Limited., 4G Identity Solutions Pvt. Limited., HID India Private Limited, eSSL Security, 3M India Limited., Honeywell Automation India limited., Zicom Electronic Security Systems Limited, Mantra Softech (India) Pvt. Limited, AutoID Systems, and BioEnable Technologies Pvt. Limited.

#### Report Scope:

In this report, India Biometrics Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

##### □ India Biometrics Market, By Solution Type:

- o Fingerprint Recognition
- o Facial Recognition
- o Iris Scanner
- o Hand/Palm Recognition
- o Voice Recognition
- o Vein Scanner
- o Others

##### □ India Biometrics Market, By Functionality Type:

- o Contact Based
- o Contact Less
- o Hybrid

##### □ India Biometrics Market, By End-Use Industry:

- o Government and Defense
- o BFSI
- o Consumer Electronics
- o IT and Telecom
- o Healthcare and Lifesciences
- o Retail and E-commerce
- o Others

##### □ India Biometrics Market, By Region:

- o East India
- o West India
- o North India
- o South India

#### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in India Biometrics Market

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Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

□ Detailed analysis and profiling of additional market players (up to five).

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