

India Computer Vision Market By Component (Hardware, Software), By Product Type (Smart Camera-Based, PC-Based), By Application (Quality Assurance & Inspection, Positioning & Guidance, Measurement, Identification, 3D Visualization & Interactive 3D Modelling, Predictive Maintenance), By Vertical (Industrial and Non-Industrial), By Region, Competition, Forecast and Opportunities, 2029

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Abstracts

India computer vision market is anticipated to grow at a robust pace during the forecast period, 2025-2029. Computer vision is a field of artificial intelligence that enables machines to perceive and understand visual information. It has many applications in various domains, such as security, healthcare, education, entertainment, and agriculture. India is one of the leading countries in computer vision research and development, with several institutes, companies, and startups working on innovative solutions for various challenges. Computer vision is an exciting and rapidly evolving field that holds great promise for the future. With the advancement of deep learning techniques, computer vision algorithms will continue to become more accurate and efficient in recognizing and understanding visual data. Computer vision will increasingly be integrated with other emerging technologies such as augmented reality, virtual reality, and autonomous systems, enabling new applications and experiences. With the increasing need for real-time processing of visual data, edge computing will become more prevalent, allowing devices to process and interpret visual data locally rather than sending it to the cloud. Computer vision has great potential in healthcare, from medical imaging to remote patient monitoring and diagnosis. As security concerns continue to grow, computer vision will play an important role in enhancing security and surveillance

capabilities. Computer vision be a key technology for enabling safe and reliable autonomous vehicles, allowing them to perceive and navigate their environment. As computer vision becomes more pervasive, there is an increasing focus on the ethical and regulatory implications of its use, including issues around privacy, bias, and accountability. Thus, the future of computer vision looks promising, with continued advancements enabling new and exciting applications across a wide range of industries and domains.

Rapid Advancements Made in Robots Using Vision-Guided Systems is Fueling The Market Growth

Rapid advancements in vision-guided robotics systems are driving the growth of the India computer vision market. Vision-guided robotics systems use computer vision technologies to enable robots to perform tasks that require visual perception, such as object recognition, tracking, and manipulation. These systems are being increasingly used in various industries, such as manufacturing, automotive, and healthcare, to improve efficiency, accuracy, and safety. The use of computer vision in robotics is fueling the growth of the India computer vision market. With the development of computer vision technology, the demand for more sophisticated vision-guided robotics systems is expected to increase. These systems will enable robots to perform tasks that were previously difficult or impossible, such as navigating complex environments or identifying objects with high accuracy. Computer vision is also being used in a wider range of industries, such as healthcare, manufacturing, and logistics. They also reduce the need for expensive and time-consuming fixtures, templates, or markers that are used to guide robots in traditional methods. Vision-guided systems can adapt to changes in the environment or the task without requiring manual intervention or reprogramming. These systems also improve the quality and consistency of the output by minimizing errors and defects.

As robots become more intelligent and capable with the help of computer vision, they will be able to take on more roles and responsibilities in various domains. This will create new opportunities and challenges for businesses and consumers alike. Vision-guided systems are not only fueling the market for computer vision but also transforming the future of robotics.

Rising Demand for Electric Vehicles (EVs) Is Driving the Computer Vision Market

The rising demand for EVs is driving the growth of the India computer vision market. Computer vision technologies are increasingly being used in EVs to improve safety,

navigation, and driver assistance systems. These systems use cameras and other sensors to collect visual data and use computer vision algorithms to interpret that data and make decisions in real-time. One example of this is the use of computer vision in advanced driver assistance systems (ADAS), which are becoming increasingly common in EVs. ADAS systems use computer vision to detect and respond to potential hazards on the road, such as pedestrians, other vehicles, and obstacles. These systems can help prevent accidents and improve overall safety for drivers and passengers. The growth of the EV market is fueling the adoption of computer vision technologies in automotive applications. The increasing demand for EVs is driving the adoption of computer vision technologies in the automotive industry. Computer vision is used in various applications in EVs, such as advanced driver-assistance systems (ADAS), self-driving cars and virtual reality (VR) and augmented reality (AR). Computer vision is used to help ADAS systems detect objects and hazards in the road environment. Computer vision is a critical technology for self-driving cars, as it allows them to perceive their surroundings and make decisions about how to navigate. Computer vision is used to power VR and AR experiences in EVs, such as head-up displays and in-car entertainment systems.

In conclusion, the rising demand for EVs is driving the India computer vision market. Computer vision has many applications in EVs that can offer various benefits for users and society. As technology advances and consumer preferences change, computer vision will play an increasingly important role in shaping the future of mobility.

Privacy and Security Concerns

Privacy and security concerns are challenges to the India computer vision market. As more businesses rely on technology to manage their operations and store sensitive data, the risk of cyberattacks and data breaches has increased significantly. Computer vision providers play a critical role in addressing these concerns by offering a range of security and privacy solutions to protect their clients' data and systems. Cyberattacks are becoming increasingly sophisticated and frequent, and Computer vision providers need to implement robust security measures to protect their clients' data and systems. With the increasing amount of personal and sensitive data being collected by businesses, there is growing concern over how this data is being used and protected. Businesses need to comply with a range of regulations and standards related to data privacy and security. Computer vision providers need to help their clients stay compliant. With the increasing use of cloud computing, there is a growing need for computer vision providers to offer robust cloud security solutions to protect their clients' data and applications. Insider threats, such as employees with malicious intent, can

pose a significant risk to businesses, and computer vision providers need to implement measures to prevent and detect such threats.

Surge in the usage of Industry 4.0 technologies

Surge in the usage of Industry 4.0 technologies is driving the growth of the India computer vision market. Industry 4.0, also known as the Fourth Industrial Revolution, refers to the integration of advanced technologies such as artificial intelligence, the Internet of Things (IoT), and robotics into manufacturing and other industrial processes.

Computer vision plays a critical role in Industry 4.0 by enabling machines to perceive and interpret visual data in real-time. For example, computer vision can be used to monitor production lines, detect defects in products, and optimize logistics and supply chain operations.

The adoption of Industry 4.0 technologies is expected to grow rapidly in the coming years, as more and more companies seek to improve efficiency, reduce costs, and enhance quality through automation and digitization.

As the adoption of Industry 4.0 technologies continues to grow, it can be expected to witness increasing demand for computer vision solutions that enable machines to perceive and interpret visual data, which, in turn, will drive the growth of the India computer vision market during the forecast period.

Market Segmentation

Based on component, the market is segmented into hardware and software. Based on product type, the market is segmented into smart camera-based and PC-based. Based on application, the market is further bifurcated into quality assurance & inspection, positioning & guidance, measurement, identification, 3D visualization & interactive 3D modelling, and predictive maintenance. Based on vertical, the market is further split into industrial and non-industrial. Based on region, the market is segmented into North India, South India, West India, and East India.

Market Players

The computer vision market in India is a thriving industry that has grown significantly in recent years. Some of the key players in the Indian Computer vision market include SensoVision Pvt Ltd, Netradyne Technology India Pvt Ltd, Uncanny Vision Solutions Pvt

Ltd, SigTuple Technologies Pvt. Ltd., CamCom Technologies Private Limited, Tonko Imaging India Pvt Ltd, ClearQuote Technologies India Pvt, Cron AI, DEEVIA Software India Pvt Ltd, and NeuroPixel.AI

Report Scope:

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

Computer Vision Market, By Component:

Hardware

Software

Computer Vision Market, By Product Type:

Smart Camera-Based

PC-Based

Computer Vision Market, By Application:

Quality Assurance & Inspection

Positioning & Guidance

Measurement

Identification

3D Visualization & Interactive 3D Modelling

Predictive Maintenance

India Computer Vision Market, By Vertical:

Industrial

Non-Industrial

India Computer vision Market, By Region:

North India

South India

East India

West India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Computer vision market.

Available Customizations:

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

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

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