

AI Image Recognition - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 118 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

The AI Image Recognition Market size is estimated at USD 4.94 billion in 2025, and is expected to reach USD 9.57 billion by 2030, at a CAGR of 14.14% during the forecast period (2025-2030).

Artificial Intelligence (AI) Image Recognition identifies objects within images and categorizes them. As a facet of computer vision, image recognition often intertwines with tasks like object detection and classification. Terms like image recognition, photo recognition, and picture recognition are often used interchangeably. Currently, image recognition stands out as one of the most profitable applications of artificial intelligence (AI).

Key Highlights

- Image recognition models rely on labeled images (be it videos, pictures, or photos) for training. Neural networks utilize these training images from a curated dataset to form perceptions of various classes. Once curated, these images are input into a neural network algorithm, embodying the deep or machine learning essence of the image recognition model. This training empowers convolutional neural networks to pinpoint specific classes. Post-training, the model undergoes testing with images outside its training dataset.
- Organizations worldwide are increasingly adopting AI to streamline processes and elevate efficiency and production standards. AI's capability to enhance, automate operations, and enrich user experiences is fueling its rising adoption. A key driver behind this surge is the anticipated financial return on investment (ROI) from AI. Companies are acknowledging AI's potential to boost revenue, cut costs, and gain a competitive edge. Consequently, numerous countries are making significant investments to accelerate AI adoption, amplifying the market's potential.
- Big data analytics harnesses processes and technologies, notably AI and machine learning, to sift through vast datasets, aiming to pinpoint patterns and derive actionable insights. This empowers organizations to make quicker, more informed decisions,

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

boosting efficiency, revenue, and profits. Furthermore, the realms of big data and artificial intelligence are intertwined, with each driving research and technological advancements in the other. While big data technologies leverage AI principles, AI, in turn, depends on the vast datasets and robust technologies of big data to refine its decision-making prowess.

- Advanced AI concepts, particularly image recognition, are now pivotal in spurring innovation across diverse sectors. Lacking expertise in these domains can hinder the progress and deployment of emerging technologies. As AI and deep learning find their footing worldwide, embraced by everyone from tech behemoths to nimble SMEs, the demand for skilled AI technicians has surged. Yet, this rising need is met with a notable scarcity of qualified professionals.

- Artificial Intelligence (AI) image recognition development spans the entire value chain due to its diverse applications. While research and development (R&D) plays a pivotal role, AI systems require ongoing training and upgrades tailored to their specific applications. This ensures that the systems remain relevant and effective in meeting the demands of various industries. Consequently, both the development and deployment of AI products differ across various segments and uses, depending on the specific requirements of the end-users and the industries they serve.

Artificial Intelligence Image Recognition Market Trends

Healthcare Sector to be the Fastest End-user Vertical

- Artificial intelligence-powered image recognition is poised to revolutionize the healthcare industry and is already demonstrating its potential. By enabling precise object detection and continuously improving image classification and segmentation, AI-driven image recognition is driving innovation in medical services.

- Medical diagnosis represents one of the most transformative applications of computer vision in today's market. By utilizing advanced image recognition to analyze medical imagery and detect various conditions, the accuracy of diagnostics and early detection improves significantly. This is especially critical for cancer and tumor detection, where early identification plays a vital role in saving lives and enhancing patient outcomes.

- The demand for AI image recognition in healthcare is rapidly growing, driven by advancements in technology and the increasing need for efficient and accurate diagnostic tools. AI algorithms are being trained to analyze medical images like X-rays, CT scans, MRIs, and others to detect anomalies that may be missed by the human eye. This leads to earlier and more accurate diagnoses of diseases.

- Furthermore, AI is being leveraged to automate processes such as image segmentation and quantification, reducing the burden on healthcare professionals and enhancing the efficiency of clinical workflows. The increasing adoption of AI-powered image recognition is driving transformation in healthcare by enabling faster, more accurate, and personalized patient care.

- Several healthcare solution-providing companies are witnessing strategic initiatives and working on bringing advancements in AI image recognition. In July 2024, GE HealthCare announced that it would acquire the clinical artificial intelligence division of Intelligent Ultrasound Group plc. Intelligent Ultrasound specializes in developing AI-powered imaging analytics tools designed to enhance ultrasound diagnostics. GE intends to integrate these technologies into its ultrasound product portfolio to streamline workflows and improve usability for clinicians.

- Additionally, GE plans to onboard Intelligent Ultrasound's team of R&D experts to drive advancements in AI-enabled image recognition and innovation for GE HealthCare's Women's Health ultrasound devices and other solutions. With such developments and the wide range of applications in the healthcare sector, the adoption of AI image recognition is expected to grow over the projected period.

North America Holds Largest Market Share

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- The United States maintains a robust innovation ecosystem through strategic federal investments in advanced technology, world-class research institutions, and a diverse pool of scientists and entrepreneurs, driving AI development across North America.
- AI image recognition systems enable real-time monitoring of people, crowds, and objects to identify accidents or security risks and facilitate rapid response from security services. This functionality motivates AI companies to develop new products and enhance existing solutions to address diverse customer requirements.
- The National Security Commission on Artificial Intelligence recommended Congress double federal AI R&D funding annually, targeting USD 32 billion by fiscal 2026. The federal R&D budget under the Biden administration's fiscal 2023 plan increased by 28% from FY 2021 to USD 204 billion. The National AI Research Institutes receive funding to facilitate collaboration between industry, academia, and government entities, creating opportunities for image recognition companies to integrate AI capabilities.
- North America's substantial investment in AI technologies stems from government support and industry-specific benefits. The region benefits from early technology adoption and hosts major AI-based image recognition companies. Key service providers include AWS, IBM Watson, Google Cloud, and Microsoft Azure, with numerous AI startups emerging from the United States and Canada.
- In March 2024, Google announced plans to invest billions of dollars through late 2024 in the United States and internationally to expand its data center infrastructure and support cloud computing and AI initiatives.
- Moreover, Canada's 2024 budget unveiled a USD 2.4 billion boost for AI initiatives in a landmark move. This includes a significant allocation of USD 2 billion spread over five years, dedicated to the newly introduced Canadian Sovereign AI Compute Strategy. The aim is to equip Canadian researchers and AI firms with the necessary tools to excel on the global AI stage.
- Additionally, on September 27, 2023, Cohere underscored its dedication to AI by endorsing Canada's Voluntary Code of Conduct, which emphasizes the responsible development and management of advanced generative AI systems. Such proactive government measures are poised to accelerate further the growth of AI-driven image recognition technologies in Canada.

Artificial Intelligence Image Recognition Industry Overview

Key players in the market consistently innovate their products, securing a sustainable competitive edge. This relentless drive for innovation fuels intense competition among players. As a result, heightened competition is likely to push prices down, impacting the industry's overall profitability.

While Artificial Intelligence (AI) image recognition tools predominantly cater to large organizations, there's untapped potential in reaching out to small and medium-sized enterprises (SMEs). By tailoring tools to fit SME budgets, players intensify the competition.

Some of the major players in the market are Amazon Web Services Inc. (Amazon.Com Inc.), Google LLC (Alphabet Inc.), Clarifai Inc., IBM Corporation, and Intel Corporation, among others.

Gaining customer attention demands significant advertising expenditure. Major players, with their capacity for extensive investment, can leverage this to carve out a competitive edge, intensifying the competition for smaller market players.

Transparency is a hallmark of this market; product and tool information is readily available online. Customers are well-informed, knowing precisely what products they seek from specific companies.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS

4.1 Market Overview

4.2 Industry Attractiveness - Porter's Five Forces Analysis

4.2.1 Bargaining Power of Buyers

4.2.2 Bargaining Power of Suppliers

4.2.3 Threat of New Entrants

4.2.4 Threat of Substitutes

4.2.5 Degree of Competition

4.3 Industry Value Chain Analysis

4.4 Assessment of the Impact of COVID-19 on the Market

5 MARKET DYNAMICS

5.1 Market Drivers

5.1.1 Growing AI Adoption

5.1.2 Increasing Use of Big Data Analytics

5.1.3 Growing Applications of the Technology in the Healthcare Sector

5.2 Market Restraints

5.2.1 Lack of Technical Expertise

6 MARKET SEGMENTATION

6.1 By Type

6.1.1 Hardware

6.1.2 Software

6.1.3 Services

6.2 By End-user Verticals

6.2.1 Automotive

6.2.2 BFSI

6.2.3 Healthcare

6.2.4 Retail

6.2.5 Security

6.2.6 Other End-user Verticals

6.3 By Geography***

6.3.1 North America

6.3.2 Europe

6.3.3 Asia

6.3.4 Australia and New Zealand

6.3.5 Latin America

6.3.6 Middle East and Africa

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

7 COMPETITIVE LANDSCAPE

7.1 Company Profiles

7.1.1 Amazon Web Services Inc. (Amazon.Com Inc.)

7.1.2 Google LLC (Alphabet Inc.)

7.1.3 Clarifai Inc.

7.1.4 IBM Corporation

7.1.5 Intel Corporation

7.1.6 Micron Technologies Inc.

7.1.7 Microsoft Corporation

7.1.8 Nvidia Corporation

7.1.9 Qualcomm Incorporated

7.1.10 Samsung Electronics Co. Ltd.

7.1.11 Xilinx, Inc. (Advanced Micro Devices, Inc.)

8 INVESTMENT ANALYSIS

9 FUTURE OF THE MARKET

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

AI Image Recognition - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 118 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-27"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

