

# **AI Image Generator Market Size, Share & Trends Analysis Report By Component (Software, Services), By End-user (Media & Entertainment, Healthcare), By Region, And Segment Forecasts, 2023 - 2030**

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## **Abstracts**

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### **AI Image Generator Market Growth & Trends**

The global AI image generator market size is expected to reach USD 1,081.2 million by 2030, growing at a CAGR of 17.5% from 2023 to 2030, according to a new report by Grand View Research, Inc. The increasing demand for visual content, advancements in AI technology, expanding use cases, integration with AR and VR, and ongoing research and development efforts, such as progressive growing GANs or style-based GANs, to generate higher-quality and more realistic images, position the artificial intelligence (AI) image generator industry for promising growth in the future.

Deep learning algorithms, particularly generative adversarial networks (GANs), have revolutionized the field of AI image generation. GANs enable the creation of highly realistic and high-quality images by pitting two neural networks against each other. As deep learning techniques continue to advance, the quality and realism of AI-generated images are improving, driving the market's growth.

For instance, in August 2019, NVIDIA Corporation introduced StyleGAN as a significant advancement in GAN-based image generation. StyleGAN allows for generating highly realistic and diverse images by controlling different aspects of the image's style and content. It is widely used in various applications, including art, fashion, and entertainment. It enables users to create unique and visually appealing images by

manipulating attributes such as facial features, clothing styles, and artistic styles.

AI image generators are integrated with AR and VR technologies to create immersive and realistic experiences. This integration allows for the real-time generation of high-quality visuals in virtual environments, contributing to the growth of the AI image generator industry. For example, AI image generators can generate realistic virtual avatars or create virtual objects with detailed textures and appearances.

The demand for AR and VR applications across industries, including gaming, training simulations, and virtual tours, will further drive the adoption of artificial intelligence image generators. For instance, VR-based flight simulators have been widely adopted for pilot training. These simulations provide a realistic cockpit environment, allowing trainee pilots to practice flight maneuvers, emergency procedures, and instrument operations in a safe and controlled virtual environment.

The applications of AI image generators are expanding beyond traditional fields like entertainment and gaming. Industries such as fashion, interior design, healthcare, and automotive are increasingly utilizing AI image generators to generate realistic product visuals, simulate design concepts, aid medical imaging, and enhance virtual experiences. Diversifying use cases will drive the demand for AI image generators and fuel market growth.

For instance, AI image generators in healthcare can be developed to generate realistic medical images for training purposes or to simulate medical scenarios. Similarly, in architecture and interior design, AI image generators can generate photorealistic renderings of buildings and interior spaces. It is projected to witness the development of more domain-specific AI image generator technologies.

### AI Image Generator Market Report Highlights

Deep learning techniques, particularly Generative Adversarial Networks (GANs), have played a crucial role in developing AI image generator technology. Researchers have made notable advancements in network architectures, training methodologies, and loss functions, improving image quality, realism, and diversity. As deep learning continues to evolve, AI image-generator technology is expected to benefit from further advancements, driving its growth

Software dominated the component segment in 2022. The advancements in AI

algorithms, including generative models like generative adversarial networks (GANs) and variational autoencoders (VAEs), heavily rely on software implementation. The software segment plays a vital role in improving the quality and diversity of AI-generated images by refining the underlying algorithms and optimizing their implementation

The e-commerce segment is expected to grow at the highest CAGR of 19.2% from 2023 to 2030. E-commerce platforms heavily rely on high-quality product images to attract customers and drive sales. AI image generators can play a significant role in generating realistic product images, enabling businesses to showcase their products in a visually appealingly manner

Prominent countries in the Asia Pacific region, including China, India, and Japan, have robust technology infrastructures, including high-speed internet connectivity and advanced data centers. This infrastructure enables the processing and storing of large amounts of data required for AI image generation applications

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