



Unleashing Creative Potential: Artistic Image Generation with OpenAI's Generative Models

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Abstract:

Artificial intelligence (AI) stands at the precipice of transforming the landscape of visual content creation, offering a rapid, convenient, and cost-effective means of producing lifelike images. In this investigation, we conducted a comprehensive assessment of image quality and realism achieved through the OpenAI image generator, a readily accessible and free resource rooted in a GAN-based model trained on an extensive repository of textual descriptions and images. Our findings demonstrate that the image generator excels in generating a diverse spectrum of high-quality, lifelike images, a consensus affirmed by participants in a user survey. The OpenAI image generator's strengths lie in its user-friendly interface and wide-ranging image production capabilities with minimal user intervention. Nevertheless, limitations include occasional instances of unrealistic or exaggerated features and a shortfall in subtle details in select images. In summary, the OpenAI image generator represents a promising tool poised to reshape the practices of image creation and utilization in marketing and beyond.

Keywords: image generation, artificial intelligence, machine learning, generative adversarial networks, OpenAI.

Introduction:

Visual content, such as images and videos, has become increasingly important in marketing and communication in recent years. In fact, studies have shown that content with relevant images gets 94% more views than content without images (Kissmetrics, 2015). However, creating high-quality visual content can be time-consuming and costly, particularly for small businesses and individuals who do not have access to professional design resources.

One promising solution to this problem is the use of artificial intelligence (AI) to generate realistic images. OpenAI, a leading research organization in the field of AI, has developed a model that can generate images of people, animals, and objects based on text descriptions. This tool has the potential

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to revolutionize the way that marketers and others create visual content, by providing a fast, easy, and free way to generate professional-quality images.

Despite the potential benefits of this tool, there is a lack of research on its effectiveness and usability. In this study, we aim to evaluate the quality and realism of images generated using OpenAI's image generator, and to examine the potential benefits and limitations of using this tool for creating visual content. We believe that this research will provide valuable insights for marketers and other users of visual content, and contribute to the development of more advanced and user-friendly image generation tools.

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