

Defining Generative AI

To understand generative artificial intelligence (GenAI), we first need to understand how the technology builds from each of the AI subcategories listed below.

Expert System AI

Programmers teach AI exactly how to solve specific problems by providing precise instructions and steps.

Artificial Intelligence

The theory and methods to build machines that think and act like humans.



Machine Learning

The ability for computers to learn from experience or data without human programming.

Deep Learning

Mimics the human brain using artificial neural networks such as **transformers** to allow computers to perform complex tasks.



Generative AI

Generates new text, audio, images, video or code based on content it has been **pre-trained** on.



ChatGPT



Midjourney



Gemini

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Marcus C Lauritsen



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setting up and using Midjourney through to advanced techniques for crafting precise text and image based prompts to ensure high quality images Detailed step by step instructions are provided to facilitate a thorough understanding of the program supported throughout by screenshots and examples of Midjourney image output Included are case studies of talented artists who use Midjourney as a creative tool with examples of their inspiring art to motivate readers A dedicated chapter offers resources for photographers designers and artists to expand their skills and to stay up to date with the latest developments in AI technology Whether you re seeking to enhance your professional toolkit or simply explore AI as a creative outlet this book offers the knowledge and skills to harness Midjourney s full potential For professionals in photography graphic design marketing advertising and education it provides the essential tools to stay ahead in a rapidly changing industry

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