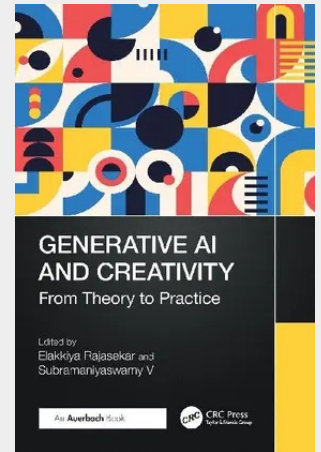


Generative AI and Creativity

From Theory to Practice

Generative AI and Creativity: From Theory to Practice is an immersive exploration into the revolutionary domain of generative artificial intelligence. It takes a step-by-step journey starting with the fundamentals of generative AI and progressing to advanced applications. The book unravels the complexities of generative models, delving into key techniques such as generative adversarial networks (GANs) and variational autoencoders (VAE)s, providing a solid foundation for readers to understand the underlying principles. **FEATURES** • Explores the collaboration between humans and AI in creative processes • Examines generative art movements, graphic design applications, and artist-AI collaborations • Defines creativity in AI, by showcasing case studies and discussing ethical considerations Moving beyond creative content generation in art and music to practical implementations in industries like healthcare and finance, the book showcases the versatility and transformative potential of generative AI across diverse domains. Readers will gain practical skills through coding examples, case studies, and collaborative projects, empowering them to integrate generative AI into their own work. The book is enriched with stories of innovation, featuring pioneers who have leveraged generative AI to push the boundaries of creativity. Ethical considerations and the societal impact of generative AI are also explored to foster a holistic understanding of the technology.

This guide goes step-by-step journey from the fundamentals of Generative AI to advanced applications. It unravels the complexities of generative models, delves into such key techniques as GANs (Generative Adversarial Networks) and VAEs (Variational Autoencoders), and provides a foundation to understand the underlying principles.



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