

TEXTBOOKS ON GENERATIVE AI

TEXTBOOKS ON GENERATIVE AI HAVE BECOME ESSENTIAL RESOURCES FOR STUDENTS, RESEARCHERS, AND PROFESSIONALS KEEN ON UNDERSTANDING THE INTRICACIES OF ARTIFICIAL INTELLIGENCE. GENERATIVE AI, A FIELD THAT FOCUSES ON CREATING MODELS THAT GENERATE NEW CONTENT, HAS GAINED MOMENTUM IN RECENT YEARS, PROMPTING A SURGE IN EDUCATIONAL MATERIALS. THIS ARTICLE DELVES INTO THE SIGNIFICANCE OF TEXTBOOKS IN THE REALM OF GENERATIVE AI, EXPLORES KEY TOPICS TYPICALLY COVERED IN THESE TEXTS, REVIEWS SOME OF THE MOST PROMINENT TEXTBOOKS AVAILABLE, AND OFFERS GUIDANCE ON SELECTING THE RIGHT ONE FOR YOUR NEEDS.

TO FACILITATE YOUR UNDERSTANDING, WE WILL ALSO PRESENT A TABLE OF CONTENTS OUTLINING THE MAIN SECTIONS OF THIS ARTICLE.

- UNDERSTANDING GENERATIVE AI
- IMPORTANCE OF TEXTBOOKS ON GENERATIVE AI
- KEY TOPICS COVERED IN GENERATIVE AI TEXTBOOKS
- POPULAR TEXTBOOKS ON GENERATIVE AI
- CHOOSING THE RIGHT TEXTBOOK
- FUTURE TRENDS IN GENERATIVE AI EDUCATION

UNDERSTANDING GENERATIVE AI

GENERATIVE AI REFERS TO ALGORITHMS AND MODELS THAT CAN GENERATE NEW DATA INSTANCES THAT RESEMBLE EXISTING DATA. THIS TECHNOLOGY IS BECOMING INCREASINGLY VITAL IN VARIOUS FIELDS, INCLUDING ART, MUSIC, AND NATURAL LANGUAGE PROCESSING. BY USING TECHNIQUES SUCH AS NEURAL NETWORKS, ESPECIALLY GENERATIVE ADVERSARIAL NETWORKS (GANS) AND VARIATIONAL AUTOENCODERS (VAES), GENERATIVE AI CAN PRODUCE OUTPUTS THAT ARE INDISTINGUISHABLE FROM REAL-WORLD DATA.

THE RAPID EVOLUTION OF GENERATIVE AI TECHNOLOGIES HAS SPARKED A NEED FOR COMPREHENSIVE EDUCATIONAL MATERIALS. TEXTBOOKS OFFER STRUCTURED CONTENT THAT BREAKS DOWN COMPLEX CONCEPTS INTO DIGESTIBLE INFORMATION, MAKING IT EASIER FOR LEARNERS TO GRASP THE PRINCIPLES AND APPLICATIONS OF GENERATIVE AI.

IMPORTANCE OF TEXTBOOKS ON GENERATIVE AI

TEXTBOOKS ON GENERATIVE AI PROVIDE NUMEROUS BENEFITS TO LEARNERS AND PROFESSIONALS ALIKE. THESE RESOURCES SERVE AS FOUNDATIONAL TEXTS THAT OUTLINE THEORIES, METHODOLOGIES, AND PRACTICAL APPLICATIONS IN THE FIELD. THE SIGNIFICANCE OF THESE TEXTBOOKS CAN BE CATEGORIZED INTO SEVERAL KEY AREAS:

- **STRUCTURED LEARNING:** TEXTBOOKS PRESENT INFORMATION IN A LOGICAL SEQUENCE, FACILITATING A STEP-BY-STEP LEARNING PROCESS.
- **COMPREHENSIVE COVERAGE:** THEY COVER A WIDE RANGE OF TOPICS, ENSURING THAT READERS GAIN A HOLISTIC UNDERSTANDING OF GENERATIVE AI.
- **EXPERT INSIGHTS:** MANY TEXTBOOKS ARE AUTHORED BY LEADING EXPERTS IN THE FIELD, PROVIDING AUTHORITATIVE

PERSPECTIVES AND INSIGHTS.

- **REAL-WORLD APPLICATIONS:** TEXTBOOKS OFTEN INCLUDE CASE STUDIES AND PRACTICAL EXAMPLES, HELPING READERS UNDERSTAND HOW GENERATIVE AI IS APPLIED IN VARIOUS INDUSTRIES.
- **RESOURCE FOR RESEARCH:** THEY SERVE AS VALUABLE REFERENCES FOR RESEARCHERS EXPLORING ADVANCED TOPICS IN GENERATIVE AI.

THE IMPORTANCE OF TEXTBOOKS IN THIS RAPIDLY EVOLVING FIELD CANNOT BE OVERSTATED. AS GENERATIVE AI CONTINUES TO DEVELOP, TEXTBOOKS WILL NEED TO ADAPT TO COVER NEW ADVANCEMENTS AND APPLICATIONS.

KEY TOPICS COVERED IN GENERATIVE AI TEXTBOOKS

TEXTBOOKS ON GENERATIVE AI TYPICALLY EXPLORE A VARIETY OF TOPICS, EACH CONTRIBUTING TO A COMPREHENSIVE UNDERSTANDING OF THE FIELD. SOME OF THE MOST COMMON SUBJECTS INCLUDE:

FUNDAMENTALS OF AI AND MACHINE LEARNING

BEFORE DELVING INTO GENERATIVE AI, MANY TEXTBOOKS BEGIN WITH AN OVERVIEW OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING PRINCIPLES. THIS FOUNDATION IS CRUCIAL FOR UNDERSTANDING HOW GENERATIVE MODELS OPERATE.

GENERATIVE MODELS

A SIGNIFICANT PORTION OF GENERATIVE AI TEXTBOOKS FOCUSES ON GENERATIVE MODELS THEMSELVES, INCLUDING:

- **GENERATIVE ADVERSARIAL NETWORKS (GANs):** THESE MODELS CONSIST OF TWO NEURAL NETWORKS CONTESTING WITH EACH OTHER, LEADING TO THE GENERATION OF HIGH-QUALITY OUTPUTS.
- **VARIATIONAL AUTOENCODERS (VAEs):** VAEs ARE USED FOR ENCODING DATA INTO A LOWER-DIMENSIONAL SPACE AND GENERATING NEW INSTANCES FROM THAT SPACE.
- **NORMALIZING FLOWS:** A TECHNIQUE THAT ALLOWS THE GENERATION OF COMPLEX DISTRIBUTIONS VIA INVERTIBLE TRANSFORMATIONS.

APPLICATIONS OF GENERATIVE AI

TEXTBOOKS ALSO HIGHLIGHT THE MYRIAD APPLICATIONS OF GENERATIVE AI, SUCH AS:

- **IMAGE AND VIDEO GENERATION:** CREATING LIFELIKE IMAGES AND REALISTIC VIDEO CONTENT.
- **TEXT GENERATION:** PRODUCING COHERENT AND CONTEXTUALLY RELEVANT TEXT, AS SEEN IN CHATBOTS AND CONTENT CREATION TOOLS.
- **ART AND MUSIC:** GENERATING ORIGINAL ARTWORKS AND COMPOSITIONS.

ETHICS AND CHALLENGES

AS GENERATIVE AI ADVANCES, ETHICAL CONSIDERATIONS BECOME PARAMOUNT. TEXTBOOKS OFTEN ADDRESS ISSUES SUCH AS BIAS IN AI, THE IMPLICATIONS OF DEEPFAKES, AND THE NEED FOR RESPONSIBLE AI DEVELOPMENT.

POPULAR TEXTBOOKS ON GENERATIVE AI

A VARIETY OF TEXTBOOKS ARE AVAILABLE THAT CATER TO DIFFERENT LEVELS OF EXPERTISE, FROM BEGINNERS TO ADVANCED PRACTITIONERS. SOME NOTABLE TEXTBOOKS INCLUDE:

- **“GENERATIVE DEEP LEARNING: TEACHING MACHINES TO PAINT, WRITE, COMPOSE, AND PLAY” BY DAVID FOSTER:** THIS BOOK COVERS THE FUNDAMENTALS OF GENERATIVE MODELS AND PROVIDES PRACTICAL EXAMPLES.
- **“DEEP LEARNING FOR COMPUTER VISION WITH PYTHON” BY ADRIAN ROSEBROCK:** WHILE FOCUSED ON COMPUTER VISION, THIS BOOK INCLUDES SECTIONS ON GANS AND THEIR APPLICATIONS IN GENERATING IMAGES.
- **“HANDS-ON MACHINE LEARNING WITH SCIKIT-LEARN, KERAS, AND TENSORFLOW” BY AURÉLIE ENFERGAT:** THIS COMPREHENSIVE GUIDE TOUCHES ON VARIOUS MACHINE LEARNING TOPICS, INCLUDING GENERATIVE MODELS.
- **“PROBABILISTIC GRAPHICAL MODELS: PRINCIPLES AND TECHNIQUES” BY DAPHNE KOLLER AND NIR FRIEDMAN:** THIS TEXT INCLUDES DISCUSSIONS ON PROBABILISTIC MODELS THAT ARE FOUNDATIONAL FOR UNDERSTANDING GENERATIVE APPROACHES.

THESE TEXTBOOKS ARE ESSENTIAL FOR ANYONE LOOKING TO DEEPEN THEIR KNOWLEDGE OF GENERATIVE AI AND ITS APPLICATIONS.

CHOOSING THE RIGHT TEXTBOOK

SELECTING THE RIGHT TEXTBOOK ON GENERATIVE AI CAN SIGNIFICANTLY AFFECT YOUR LEARNING EXPERIENCE. HERE ARE SEVERAL FACTORS TO CONSIDER:

- **LEVEL OF EXPERTISE:** ASSESS WHETHER THE TEXTBOOK SUITS YOUR CURRENT KNOWLEDGE LEVEL, WHETHER YOU ARE A BEGINNER OR HAVE ADVANCED KNOWLEDGE OF AI.
- **FOCUS AREA:** DETERMINE IF YOU ARE INTERESTED IN A SPECIFIC APPLICATION OF GENERATIVE AI, SUCH AS TEXT OR IMAGE GENERATION.
- **PRACTICAL VS. THEORETICAL:** SOME TEXTBOOKS EMPHASIZE PRACTICAL APPLICATIONS, WHILE OTHERS FOCUS ON THEORETICAL FRAMEWORKS. CHOOSE BASED ON YOUR PREFERENCE.
- **AUTHOR CREDENTIALS:** LOOK FOR TEXTBOOKS AUTHORED BY RECOGNIZED EXPERTS IN THE FIELD TO ENSURE THE QUALITY OF THE CONTENT.

BY CAREFULLY CONSIDERING THESE FACTORS, YOU CAN SELECT A TEXTBOOK THAT ALIGNS WITH YOUR LEARNING OBJECTIVES AND NEEDS.

FUTURE TRENDS IN GENERATIVE AI EDUCATION

AS GENERATIVE AI CONTINUES TO ADVANCE, THE EDUCATIONAL LANDSCAPE WILL LIKELY EVOLVE IN TANDEM. FUTURE TEXTBOOKS MAY FOCUS ON:

- **INTERDISCIPLINARY APPROACHES:** INTEGRATING INSIGHTS FROM FIELDS LIKE PSYCHOLOGY, ART, AND ETHICS TO CREATE MORE HOLISTIC EDUCATIONAL MATERIALS.
- **INTERACTIVE LEARNING:** INCORPORATING ONLINE PLATFORMS AND RESOURCES THAT OFFER INTERACTIVE EXPERIENCES, SUCH AS CODING EXERCISES AND SIMULATIONS.
- **REAL-WORLD CASE STUDIES:** MORE EMPHASIS ON PRACTICAL APPLICATIONS AND CASE STUDIES TO BRIDGE THE GAP BETWEEN THEORY AND PRACTICE.

THE FUTURE OF GENERATIVE AI EDUCATION LOOKS PROMISING, WITH AN INCREASING NUMBER OF RESOURCES AVAILABLE TO LEARNERS AT ALL LEVELS.

Q: WHAT ARE THE BEST TEXTBOOKS FOR BEGINNERS IN GENERATIVE AI?

A: FOR BEGINNERS, “GENERATIVE DEEP LEARNING: TEACHING MACHINES TO PAINT, WRITE, COMPOSE, AND PLAY” BY DAVID FOSTER AND “HANDS-ON MACHINE LEARNING WITH SCIKIT-LEARN, KERAS, AND TENSORFLOW” BY AURÉLIE LIEN GRON ARE EXCELLENT CHOICES. THEY PROVIDE FOUNDATIONAL CONCEPTS AND PRACTICAL EXAMPLES THAT ARE ACCESSIBLE TO NEWCOMERS.

Q: HOW DO GENERATIVE AI TEXTBOOKS ADDRESS ETHICAL CONCERNS?

A: MANY TEXTBOOKS INCORPORATE DISCUSSIONS ON ETHICS, EXPLORING ISSUES SUCH AS BIAS IN AI MODELS, THE IMPLICATIONS OF GENERATED CONTENT, AND THE RESPONSIBILITIES OF AI DEVELOPERS. THIS ENSURES THAT LEARNERS ARE AWARE OF THE ETHICAL LANDSCAPE SURROUNDING GENERATIVE AI.

Q: ARE THERE TEXTBOOKS THAT FOCUS SPECIFICALLY ON GANS?

A: YES, SEVERAL TEXTBOOKS PROVIDE IN-DEPTH COVERAGE OF GANS, INCLUDING PRACTICAL APPLICATIONS AND THEORETICAL FOUNDATIONS. “GENERATIVE DEEP LEARNING” BY DAVID FOSTER IS PARTICULARLY NOTED FOR ITS FOCUS ON GANS AND THEIR USE IN VARIOUS CREATIVE DOMAINS.

Q: WHAT IS THE IMPORTANCE OF REAL-WORLD APPLICATIONS IN GENERATIVE AI TEXTBOOKS?

A: REAL-WORLD APPLICATIONS HELP CONTEXTUALIZE THEORETICAL KNOWLEDGE, DEMONSTRATING HOW GENERATIVE AI CAN BE APPLIED IN INDUSTRIES SUCH AS GAMING, ART, AND HEALTHCARE. THIS PRACTICAL CONTEXT ENHANCES UNDERSTANDING AND ENGAGEMENT.

Q: WILL FUTURE TEXTBOOKS ON GENERATIVE AI INCLUDE MORE INTERACTIVE CONTENT?

A: IT IS LIKELY THAT FUTURE TEXTBOOKS WILL INTEGRATE MORE INTERACTIVE CONTENT, SUCH AS ONLINE CODING ENVIRONMENTS AND SIMULATIONS, ALLOWING LEARNERS TO EXPERIMENT WITH GENERATIVE AI CONCEPTS IN REAL-TIME.

Q: HOW OFTEN ARE TEXTBOOKS ON GENERATIVE AI UPDATED?

A: GIVEN THE RAPID ADVANCEMENTS IN THE FIELD OF AI, TEXTBOOKS ON GENERATIVE AI ARE TYPICALLY UPDATED EVERY FEW YEARS TO INCLUDE THE LATEST RESEARCH, TECHNOLOGIES, AND APPLICATIONS. KEEPING AN EYE ON NEW EDITIONS IS ADVISED FOR THE MOST CURRENT INFORMATION.

Q: WHAT SKILLS ARE ESSENTIAL TO STUDY GENERATIVE AI EFFECTIVELY?

A: ESSENTIAL SKILLS INCLUDE A SOLID UNDERSTANDING OF MACHINE LEARNING FUNDAMENTALS, PROFICIENCY IN PROGRAMMING LANGUAGES SUCH AS PYTHON, AND FAMILIARITY WITH MATHEMATICAL CONCEPTS LIKE LINEAR ALGEBRA AND STATISTICS.

Q: CAN TEXTBOOKS ON GENERATIVE AI HELP WITH PRACTICAL CODING SKILLS?

A: YES, MANY TEXTBOOKS INCLUDE PRACTICAL EXERCISES, CODING EXAMPLES, AND PROJECTS THAT ENHANCE CODING SKILLS WHILE LEARNING GENERATIVE AI CONCEPTS. THESE HANDS-ON ACTIVITIES ARE CRUCIAL FOR SOLIDIFYING UNDERSTANDING.

Q: ARE THERE TEXTBOOKS THAT COVER THE INTERSECTION OF GENERATIVE AI AND ART?

A: YES, SEVERAL TEXTBOOKS FOCUS ON THE INTERSECTION OF GENERATIVE AI AND ART, EXPLORING HOW AI CAN BE USED IN CREATIVE PROCESSES. "GENERATIVE DEEP LEARNING" BY DAVID FOSTER IS A PROMINENT EXAMPLE THAT DELVES INTO THIS AREA.

Q: WHAT IS THE ROLE OF CASE STUDIES IN GENERATIVE AI TEXTBOOKS?

A: CASE STUDIES IN GENERATIVE AI TEXTBOOKS ILLUSTRATE REAL-WORLD APPLICATIONS AND CHALLENGES FACED IN THE INDUSTRY, PROVIDING LEARNERS WITH PRACTICAL INSIGHTS AND A DEEPER UNDERSTANDING OF THE SUBJECT MATTER.

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textbooks on generative ai: Generative AI For Business Leaders I. Almeida, 2023-12-03 2025 Edition. Business leaders must understand how to effectively leverage Generative AI within their companies in order to remain competitive. This book collection offers a fresh, timely viewpoint on this critical topic. Readers will gain foundational knowledge about AI and Generative algorithms while exploring both the potential benefits, risks and ethics involved. Guidance is provided on enhancing an organization's offerings, operating model and strategic direction while mitigating biases and negative consequences. The book collection lays out a comprehensive approach for businesses to successfully adopt and integrate Generative AI technologies. Common errors and challenges that companies face in this relatively new domain are highlighted, along with proven tactics to overcome them and achieve strong results. A comprehensive playbook to unlock the commercial potential of generative AI for managers, directors, executives, governance specialists, and any professionals interested in the intersection of business and emerging technologies. Book:

Generative AI Transformation Blueprint Drawing on insights from AI-enabled business transformations in diverse sectors, it presents a validated strategic approach. This blueprint not only outlines best practices but also showcases pioneering use cases, integrating them into a cohesive framework for practical implementation. This scenario-based approach helps leaders understand where and how to apply the practices outlined. Spanning across areas from strategic alignment and talent development to ethical governance and sustaining a competitive edge amid relentless underlying progress, it delivers clarity for charting an optimal Generative AI roadmap. Book: Introduction to Large Language Models for Business Leaders: Responsible AI Strategy Beyond Fear and Hype Finalist for the 2023 HARVEY CHUTE Book Awards recognizing emerging talent and outstanding works in the genre of Business and Enterprise Non-Fiction. Explore the transformative potential of technologies like ChatGPT and Claude. These large language models (LLMs) promise to reshape how businesses operate. Aimed at non-technical business leaders, this guide offers a pragmatic approach to leveraging LLMs for tangible benefits, while ensuring ethical considerations aren't sidelined. LLMs can refine processes in marketing, software development, HR, R&D, customer service, and even legal operations. But it's essential to approach them with a balanced view. In this guide, you'll: - Learn about the rapid advancements of LLMs. - Understand complex concepts in simple terms. - Discover practical business applications. - Get strategies for smooth integration. - Assess potential impacts on your team. - Delve into the ethics of deploying LLMs. Book: Artificial Intelligence Fundamentals for Business Leaders: Up to Date With Generative AI The perfect guide to help non-technical business leaders understand the power of AI: Machine Learning, Neural Networks, and Data Management. Up to date with Generative AI. More Than a Book Collection By purchasing this series, you will also be granted free access to the AI Academy platform. There you can test your knowledge through end-of-chapter quizzes and engage in discussion. You will also receive free modules and 50% discount toward the enrollment in the self-paced course of the same name and enjoy video summary lessons, instructor-graded assignments, and live sessions. A course certificate will be awarded upon successful completion.

textbooks on generative ai: Generative Deep Learning David Foster, 2022-06-28 Generative AI is the hottest topic in tech. This practical book teaches machine learning engineers and data scientists how to use TensorFlow and Keras to create impressive generative deep learning models from scratch, including variational autoencoders (VAEs), generative adversarial networks (GANs), Transformers, normalizing flows, energy-based models, and denoising diffusion models. The book starts with the basics of deep learning and progresses to cutting-edge architectures. Through tips and tricks, you'll understand how to make your models learn more efficiently and become more creative. Discover how VAEs can change facial expressions in photos Train GANs to generate images based on your own dataset Build diffusion models to produce new varieties of flowers Train your own GPT for text generation Learn how large language models like ChatGPT are trained Explore state-of-the-art architectures such as StyleGAN2 and ViT-VQGAN Compose polyphonic music using Transformers and MuseGAN Understand how generative world models can solve reinforcement learning tasks Dive into multimodal models such as DALL.E 2, Imagen, and Stable Diffusion This book also explores the future of generative AI and how individuals and companies can proactively begin to leverage this remarkable new technology to create competitive advantage.

textbooks on generative ai: Generative AI in Action Amit Bahree, 2024-11-26 Generative AI can transform your business by streamlining the process of creating text, images, and code. This book will show you how to get in on the action! Generative AI in Action is the comprehensive and concrete guide to generative AI you've been searching for. It introduces both AI's fundamental principles and its practical applications in an enterprise context—from generating text and images for product catalogs and marketing campaigns, to technical reporting, and even writing software. Inside, author Amit Bahree shares his experience leading Generative AI projects at Microsoft for nearly a decade, starting well before the current GPT revolution. Inside Generative AI in Action you will find: • A practical overview of of generative AI applications • Architectural patterns, integration guidance, and best practices for generative AI • The latest techniques like RAG, prompt engineering,

and multi-modality • The challenges and risks of generative AI like hallucinations and jailbreaks • How to integrate generative AI into your business and IT strategy

Generative AI in Action is full of real-world use cases for generative AI, showing you where and how to start integrating this powerful technology into your products and workflows. You'll benefit from tried-and-tested implementation advice, as well as application architectures to deploy GenAI in production at enterprise scale. About the technology In controlled environments, deep learning systems routinely surpass humans in reading comprehension, image recognition, and language understanding. Large Language Models (LLMs) can deliver similar results in text and image generation and predictive reasoning. Outside the lab, though, generative AI can both impress and fail spectacularly. So how do you get the results you want? Keep reading! About the book **Generative AI in Action** presents concrete examples, insights, and techniques for using LLMs and other modern AI technologies successfully and safely. In it, you'll find practical approaches for incorporating AI into marketing, software development, business report generation, data storytelling, and other typically-human tasks. You'll explore the emerging patterns for GenAI apps, master best practices for prompt engineering, and learn how to address hallucination, high operating costs, the rapid pace of change and other common problems.

What's inside • Best practices for deploying Generative AI apps • Production-quality RAG • Adapting GenAI models to your specific domain

About the reader For enterprise architects, developers, and data scientists interested in upgrading their architectures with generative AI.

About the author Amit Bahree is Principal Group Product Manager for the Azure AI engineering team at Microsoft. The technical editor on this book was Wee Hyong Tok.

Table of Contents

Part 1

1 Introduction to generative AI

2 Introduction to large language models

3 Working through an API: Generating text

4 From pixels to pictures: Generating images

5 What else can AI generate?

Part 2

6 Guide to prompt engineering

7 Retrieval-augmented generation: The secret weapon

8 Chatting with your data

9 Tailoring models with model adaptation and fine-tuning

Part 3

10 Application architecture for generative AI apps

11 Scaling up: Best practices for production deployment

12 Evaluations and benchmarks

13 Guide to ethical GenAI: Principles, practices, and pitfalls

A The book's GitHub repository

B Responsible AI tools

textbooks on generative ai: Applications of Generative AI Zhihan Lyu, 2024-03-05 This book provides a comprehensive introduction to Generative AI in terms of basic concepts, core technologies, technical architecture, and application scenarios. Readers gain a deeper understanding of the emerging discipline of Generative AI. This book covers the latest cutting-edge application technologies of Generative AI in various fields. It provides relevant practitioners with ideas to solve problems and deepen their understanding of Generative AI. At the same time, it guides and helps Generative AI and related industries to deepen their understanding of the industry and enhance professional knowledge and skills. Starting from reality, this book lists many cases and analyzes theories in a popular image. The book is useful for AI researchers and specifically for those working with the applications at hand (primarily medical imaging and construction/twinning industry). It covers a variety of cutting-edge technologies in Generative AI, which provides researchers with new research ideas.

textbooks on generative ai: Generative Artificial Intelligence R. Nidhya, D. Pavithra, Manish Kumar, A. Dinesh Kumar, S. Balamurugan, 2025-04-01 This book is a comprehensive overview of AI fundamentals and applications to drive creativity, innovation, and industry transformation. Generative AI stands at the forefront of artificial intelligence innovation, redefining the capabilities of machines to create, imagine, and innovate. GAI explores the domain of creative production with new and original content across various forms, including images, text, music, and more. In essence, generative AI stands as evidence of the boundless potential of artificial intelligence, transforming industries, sparking creativity, and challenging conventional paradigms. It represents not just a technological advancement but a catalyst for reimagining how machines and humans collaborate, innovate, and shape the future. The book examines real-world examples of how generative AI is being used in a variety of industries. The first section explores the fundamental concepts and ethical considerations of generative AI. In addition, the section also introduces

machine learning algorithms and natural language processing. The second section introduces novel neural network designs and convolutional neural networks, providing dependable and precise methods. The third section explores the latest learning-based methodologies to help researchers and farmers choose optimal algorithms for specific crop and hardware needs. Furthermore, this section evaluates significant advancements in revolutionizing online content analysis, offering real-time insights into content creation for more interactive processes. Audience The book will be read by researchers, engineers, and students working in artificial intelligence, computer science, and electronics and communication engineering as well as industry application areas.

textbooks on generative ai: ARTIFICIAL INTELLIGENCE & GENERATIVE AI FOR BEGINNERS DAVID M. PATEL., 2023

textbooks on generative ai: Generative Artificial Intelligence Shivam R Solanki, Drupad K Khublani, 2024-07-30 This book explains the field of Generative Artificial Intelligence (AI), focusing on its potential and applications, and aims to provide you with an understanding of the underlying principles, techniques, and practical use cases of Generative AI models. The book begins with an introduction to the foundations of Generative AI, including an overview of the field, its evolution, and its significance in today's AI landscape. It focuses on generative visual models, exploring the exciting field of transforming text into images and videos. A chapter covering text-to-video generation provides insights into synthesizing videos from textual descriptions, opening up new possibilities for creative content generation. A chapter covers generative audio models and prompt-to-audio synthesis using Text-to-Speech (TTS) techniques. Then the book switch gears to dive into generative text models, exploring the concepts of Large Language Models (LLMs), natural language generation (NLG), fine-tuning, prompt tuning, and reinforcement learning. The book explores techniques for fixing LLMs and making them grounded and indestructible, along with practical applications in enterprise-grade applications such as question answering, summarization, and knowledge-based generation. By the end of this book, you will understand Generative text, and audio and visual models, and have the knowledge and tools necessary to harness the creative and transformative capabilities of Generative AI. What You Will Learn What is Generative Artificial Intelligence? What are text-to-image synthesis techniques and conditional image generation? What is prompt-to-audio synthesis using Text-to-Speech (TTS) techniques? What are text-to-video models and how do you tune them? What are large language models, and how do you tune them? Who This Book Is For Those with intermediate to advanced technical knowledge in artificial intelligence and machine learning

textbooks on generative ai: Generative AI and LLMs S. Balasubramaniam, Seifedine Kadry, A. Prasanth, Rajesh Kumar Dhanaraj, 2024-09-23 Generative artificial intelligence (GAI) and large language models (LLM) are machine learning algorithms that operate in an unsupervised or semi-supervised manner. These algorithms leverage pre-existing content, such as text, photos, audio, video, and code, to generate novel content. The primary objective is to produce authentic and novel material. In addition, there exists an absence of constraints on the quantity of novel material that they are capable of generating. New material can be generated through the utilization of Application Programming Interfaces (APIs) or natural language interfaces, such as the ChatGPT developed by Open AI and Bard developed by Google. The field of generative artificial intelligence (AI) stands out due to its unique characteristic of undergoing development and maturation in a highly transparent manner, with its progress being observed by the public at large. The current era of artificial intelligence is being influenced by the imperative to effectively utilise its capabilities in order to enhance corporate operations. Specifically, the use of large language model (LLM) capabilities, which fall under the category of Generative AI, holds the potential to redefine the limits of innovation and productivity. However, as firms strive to include new technologies, there is a potential for compromising data privacy, long-term competitiveness, and environmental sustainability. This book delves into the exploration of generative artificial intelligence (GAI) and LLM. It examines the historical and evolutionary development of generative AI models, as well as the challenges and issues that have emerged from these models and LLM. This book also discusses the

necessity of generative AI-based systems and explores the various training methods that have been developed for generative AI models, including LLM pretraining, LLM fine-tuning, and reinforcement learning from human feedback. Additionally, it explores the potential use cases, applications, and ethical considerations associated with these models. This book concludes by discussing future directions in generative AI and presenting various case studies that highlight the applications of generative AI and LLM.

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textbooks on generative ai: Generative AI on AWS Chris Fregly, Antje Barth, Shelbee Eigenbrode, 2023-11-13 Companies today are moving rapidly to integrate generative AI into their products and services. But there's a great deal of hype (and misunderstanding) about the impact and promise of this technology. With this book, Chris Fregly, Antje Barth, and Shelbee Eigenbrode from AWS help CTOs, ML practitioners, application developers, business analysts, data engineers, and data scientists find practical ways to use this exciting new technology. You'll learn the generative AI project life cycle including use case definition, model selection, model fine-tuning, retrieval-augmented generation, reinforcement learning from human feedback, and model quantization, optimization, and deployment. And you'll explore different types of models including large language models (LLMs) and multimodal models such as Stable Diffusion for generating images and Flamingo/IDEFICS for answering questions about images. Apply generative AI to your business use cases Determine which generative AI models are best suited to your task Perform prompt engineering and in-context learning Fine-tune generative AI models on your datasets with low-rank adaptation (LoRA) Align generative AI models to human values with reinforcement learning from human feedback (RLHF) Augment your model with retrieval-augmented generation (RAG) Explore libraries such as LangChain and ReAct to develop agents and actions Build generative AI applications with Amazon Bedrock

textbooks on generative ai: Generative AI in Higher Education Adebowale Owoseni, Oluwaseun Kolade, Abiodun Egbetokun, 2024-09-18 With the integration of generative artificial intelligence (AI), teachers and learners now have access to powerful tools to enhance their productivity and effectiveness in their work. To meet the demands of this dynamic educational landscape, teachers must embrace AI to handle repetitive tasks, freeing them to focus on more intelligent and humanistic responsibilities. For learners, responsible use of AI could make learning more fun, personalized, flexible, and enriching. This insightful new book explores the evolving role of educators in higher education in a world of rapid technological advancements and provides a practical outline of the available technologies. By integrating Generative AI into teaching and learning, Higher Education Institutions can contribute to achieving inclusive and equitable quality education, a target of the UN Sustainable Development Goals, and promote lifelong learning opportunities for all. Generative AI can be used to enhance teaching and learning experiences, foster creativity, and develop new learning experiences in higher education. This book is a valuable resource for educators navigating the ever-changing landscape of education technology. With scientific background, practical insights and actionable tips, this book will be of interest to scholars

of emerging technologies and innovation in education. It will also be of practical use to instructors seeking to harness the power of generative AI, enhancing productivity and transforming their approach to personalized learning.

textbooks on generative ai: A Textbook On ARTIFICIAL INTELLIGENCE IN PRECISION MEDICINE, DRUG DEVELOPMENT, AND HEALTHCARE Dr.Krishnaraju Venkatesan, Dr. Sanjeev Kumar, Mrs. Sravani Boyapati, Dr.S. Shobana, Dr. Neha Chauhan, I would like to take this opportunity to expose you to the topic of Artificial Intelligence in Precision Medicine, Drug Development, and Healthcare. Artificial intelligence (AI) is one of the most revolutionary forces that will shape the future of medicine and healthcare delivery, and this book is a comprehensive investigation of that force. In recent years, artificial intelligence has emerged as a strong technology that has the ability to revolutionise every area of the healthcare ecosystem. This includes personalized treatment plans, medication discovery and development, and even the delivery of healthcare services. At the convergence of artificial intelligence and precision medicine lies the potential of healthcare solutions that are more effective, efficient, and equitable, and that are personalized to the specific requirements of each individual patient. The purpose of this book is to take us on a trip to reveal the intricacies of artificial intelligence in the healthcare industry by investigating its applications, problems, and ethical implications. In this article, we delve into the complexities of precision medicine, which is using artificial intelligence to provide clinicians with insights that enable them to give customised treatments based on a patient's unique genetic composition, lifestyle characteristics, and environmental impacts. In addition, we investigate the role that artificial intelligence plays in the process of drug discovery and development. This is a process in which sophisticated algorithms and machine learning models speed up the process of identifying innovative drug candidates, optimise the design of clinical trials, and improve the safety and effectiveness of pharmaceutical interventions. A new era of innovation is being ushered in by artificial intelligence, which is transforming the landscape of the pharmaceutical sector in a variety of ways, including medication repurposing and predictive modelling of drug toxicity.

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