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Generative AI with Python and TensorFlow 2 Joseph Babcock, Raghav Bali, 2021-04-30 This edition is heavily outdated and we have a new edition with PyTorch examples published Key Features Code examples are in TensorFlow 2 which make it easy for PyTorch users to follow along Look inside the most famous deep generative models from GPT to MuseGAN Learn to build and adapt your own models in TensorFlow 2 x Explore exciting cutting edge use cases for deep generative AI Book Description Machines are excelling at creative human skills such as painting writing and composing music Could you be more creative than generative AI In this book you ll explore the evolution of generative models from restricted Boltzmann machines and deep belief networks to VAEs and GANs You ll learn how to implement models yourself in TensorFlow and get to grips with the latest research on deep neural networks There s been an explosion in potential use cases for generative models You ll look at Open AI s news generator deepfakes and training deep learning agents to navigate a simulated environment Recreate the code that s under the hood and uncover surprising links between text image and music generation What you will learn Export the code from GitHub into Google Colab to see how everything works for yourself Compose music using LSTM models simple GANs and MuseGAN Create deepfakes using facial landmarks autoencoders and pix2pix GAN Learn how attention and transformers have changed NLP Build several text generation pipelines based on LSTMs BERT and GPT 2 Implement paired and unpaired style transfer with networks like StyleGAN Discover emerging applications of generative AI like folding proteins and creating videos from images Who this book is for This is a book for Python programmers who are keen to create and have some fun using generative models To make the most out of this book you should have a basic familiarity with math and statistics for machine learning **Generative AI** Prabhu TL, 2025-04-06 Generative AI From Basics to Breakthroughs Unlock the Power of Machines That Imagine Create and Build the Future Step into the most transformative era of technology since the invention of the internet Generative AI is not just reshaping industries it s redefining what it means to be creative intelligent and human In this groundbreaking guide you ll explore the fascinating world where algorithms become artists machines write like humans and code generates code Whether you re a developer looking to build the next AI powered tool a designer eager to co create with machines or simply curious about how tools like ChatGPT DALL E and Stable Diffusion work this book is your roadmap Inside You ll Discover The core building blocks autoencoders GANs transformers and diffusion models How generative AI powers text image audio video and code creation Real world applications across business education entertainment and art The tools libraries and platforms that fuel AI development no coding experience needed Case studies from companies like OpenAI Adobe GitHub and Synthesia Crucial conversations on ethics copyright bias and responsible AI use Future trends and how you can ride the wave of the next digital renaissance Perfect for Tech professionals entrepreneurs Designers digital artists Students educators researchers Content creators marketers Anyone fascinated by the future of intelligence and creativity Whether you re just getting started or

seeking to master advanced tools and techniques Generative AI From Basics to Breakthroughs is your comprehensive up to date companion to the most exciting technology of our time Create Innovate Elevate The future isn't just automated it's generated

[Generative AI with Python and Pytorch](#) Joseph Babcock, Raghav Bali, 2025-03-28 Master GenAI techniques to create images and text using variational autoencoders VAEs generative adversarial networks GANs LSTMs and large language models LLMs Key Features Implement real world applications of LLMs and generative AI Fine tune models with PEFT and LoRA to speed up training Expand your LLM toolbox with Retrieval Augmented Generation RAG techniques LangChain and LlamaIndex Purchase of the print or Kindle book includes a free eBook in PDF format Book Description Become an expert in Generative AI through immersive hands on projects that leverage today's most powerful models for Natural Language Processing NLP and computer vision Generative AI with Python and PyTorch is your end to end guide to creating advanced AI applications made easy by Raghav Bali a seasoned data scientist with multiple patents in AI and Joseph Babcock a PhD and machine learning expert Through business tested approaches this book simplifies complex GenAI concepts making learning both accessible and immediately applicable From NLP to image generation this second edition explores practical applications and the underlying theories that power these technologies By integrating the latest advancements in LLMs it prepares you to design and implement powerful AI systems that transform data into actionable intelligence You'll build your versatile LLM toolkit by gaining expertise in GPT-4 LangChain RLHF LoRA RAG and more You'll also explore deep learning techniques for image generation and apply style transfer using GANs before advancing to implement CLIP and diffusion models Whether you're generating dynamic content or developing complex AI driven solutions this book equips you with everything you need to harness the full transformative power of Python and AI What will you learn Grasp the core concepts and capabilities of LLMs Craft effective prompts using chain of thought ReAct and prompt query language to guide LLMs toward your desired outputs Understand how attention and transformers have changed NLP Optimize your diffusion models by combining them with VAEs Build text generation pipelines based on LSTMs and LLMs Leverage the power of open source LLMs such as Llama and Mistral for diverse applications Who this book is for This book is for data scientists machine learning engineers and software developers seeking practical skills in building generative AI systems A basic understanding of math and statistics and experience with Python coding is required

Learn Generative AI with PyTorch Mark Liu, 2025-01-28 Learn how generative AI works by building your very own models that can write coherent text create realistic images and even make lifelike music Learn Generative AI with PyTorch teaches the underlying mechanics of generative AI by building working AI models from scratch Throughout you'll use the intuitive PyTorch framework that's instantly familiar to anyone who's worked with Python data tools Along the way you'll master the fundamentals of Generative Adversarial Networks GANs Transformers Large Language Models LLMs variational autoencoders diffusion models LangChain and more In Learn Generative AI with PyTorch you'll build these amazing models A simple

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AI-Powered Dropshipping for Beginners: Step-by-Step Guide to Building a Profitable Shopify Store with Automation Tools
Jackson Reid Monroe ,2025-07-09 AI Powered Dropshipping for Beginners Step by Step Guide to Building a Profitable Shopify Store with Automation Tools Transform your e commerce vision into reality with a Shopify store that practically runs itself AI Powered Dropshipping for Beginners takes you from zero to launch using cutting edge AI tools to build automate and scale your business no inventory required Why This Book Stands Out Top rated dropshipping guides receive praise like effortless store setup build a fully functional Shopify store in minutes This book goes further showing you how to leverage AI to accelerate every step product research marketing order management and customer support What You'll Discover Inside Effortless Shopify Setup Learn how to build a professional ready to sell store in minutes by using AI driven tools for theme design product uploads and SEO optimization Smart Product Research Use AI to uncover high demand low competition products eliminating guesswork and positioning your store for profit Automated Marketing Tactics Generate compelling optimized product descriptions run AI powered ad campaigns and optimize pricing dynamically all guided by proven examples Seamless Order Customer Management Learn to set up AI chatbots and inventory sync systems that handle orders track shipments and answer customer questions 24/7 so you don't have to Scale with Automation Build a business that grows on autopilot by integrating tools like AutoDS which manage product imports pricing updates and fulfillment without your

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Artificial Intelligence Tools Book Manish Soni,2024-11-13 Welcome to the exciting and rapidly evolving world of artificial intelligence AI This book Artificial Intelligence Tools Unlocking the Power of Intelligent Systems is designed to be your comprehensive guide to understanding implementing and leveraging the cutting edge tools that drive the advancements in AI Whether you are a seasoned professional in the field or a curious newcomer this book aims to provide you with valuable insights and practical knowledge to navigate the multifaceted landscape of AI tools From machine learning algorithms to neural networks readers will gain insights into the core concepts that form the backbone of intelligent systems We aim to make complex ideas accessible ensuring that readers regardless of their technical background can grasp the essentials of AI Furthermore we recognize the ethical implications and societal considerations surrounding AI In a dedicated section we address the responsible use of AI tools discussing issues such as bias in algorithms transparency and accountability It is crucial for individuals working with AI to understand the ethical dimensions of their work and strive towards the development of AI systems that align with human values and promote inclusivity In addition to the technical aspects this book emphasizes the importance of continuous learning and adaptation in the rapidly evolving field of AI The final sections explore emerging trends such as reinforcement learning autonomous systems and AI driven creativity offering readers a glimpse into the future of artificial intelligence

Key Features

- 1 Extensive Theoretical Content The book covers the full spectrum of topics from fundamental concepts to advanced techniques Each chapter is designed to build on the previous one ensuring a logical progression and deep comprehension of the subject matter
- 2 Online Test Papers To reinforce your learning we provide a series of online test papers that mimic real world scenarios and challenges These tests are designed to evaluate your understanding and help you identify areas that need further study
- 3 Video Tutorials Understanding concepts can sometimes be challenging through text alone Our book includes links to a series of video tutorials that provide visual and auditory

explanations of complex topics These videos are created by experts and are intended to complement the written material offering a more immersive learning experience 4 Practical Applications Each chapter includes real world examples and case studies that illustrate how application is applied across different industries 5 Self Assessment Tools At the end of each chapter self assessment questions and exercises allow you to test your understanding and track your progress These tools are invaluable in helping you gauge your readiness and build confidence as you move forward Whether you are an aspiring data scientist a business professional exploring AI application or an academic researcher pushing the boundaries of knowledge Artificial Intelligence Tools is crafted to be a valuable companion on your journey As you embark on this exploration of artificial intelligence we encourage you to engage with the content experiment with the tools and contribute to the ongoing dialogue surrounding the responsible development and application of intelligent systems The future of AI is in your hands and we are excited to be part of your learning journey

Creative Convergence James Hutson,Jason Lively,Bryan Robertson,Peter Cotroneo,Martin Lang,2023-11-14 Embark on a journey that transcends the boundaries of art and technology in the groundbreaking realm of Creative Convergence The AI Renaissance in Art and Design This isn t just another book on art and technology it s a journey that sparks curiosity fuels innovation and challenges traditional artistic boundaries Discover the power of generative Artificial Intelligence AI as it melds with human expression propelling artistry into uncharted territories and redefining traditional notions of both originality and creativity The text is not just about art or AI it is about the fusion of both catalyzing a creative revolution that challenges previous assumptions about human machine collaboration and how ideation conceptualization process and execution are radically rethought Have you ever wondered how will AI revolutionize training education and execution in art and design Delve into this captivating treatment that contextualizes the disruptions we are experiencing today in the technological innovations and artistic responses and integrations of the past five hundred years Human creativity has always struggled against technological advance but ultimately integrated and redefined what art is in each era As such you will see how AI can be incorporated in various artistic disciplines in this study Explore real world case studies that showcase AI s practical impact on 3D design drawing digital art and even web design The book also addresses the controversial question Can AI be a co creator in the creative and artistic process even assisting in creating an original signature style Brace yourself for revelations that will challenge your perceptions of traditional artistry

AI Ink. Jason Van Tatenhove,2025-11-04 Learn how to use and leverage AI as a writer editor literary agent or publisher AI Ink Writing Publishing and Misinformation at the Dawn of the AI Age is a groundbreaking exploration of the profound impact of artificial intelligence on the creative industries Jason Van Tatenhove a journalist and expert on political extremism takes readers on a journey through the rapidly evolving landscape where AI tools are reshaping writing and publishing From AI generated content to the ethical dilemmas of misinformation this book addresses the opportunities and challenges that come with the integration of AI into creative processes Van Tatenhove draws

on his extensive experience and interviews with leading experts to provide a comprehensive guide that is essential for writers publishers and anyone interested in the future of creativity AI Ink not only explores the current state of AI but also offers thoughtful predictions and practical advice for navigating the complexities of this new technological era **AI Deep**

Learning in Image Processing Frank Y. Shih, 2025-10-14 Image processing plays a crucial role in various fields including digital multimedia automated vision detection and inspection and pattern recognition AI Deep Learning in Image Processing aims to provide a comprehensive overview of the mechanisms and techniques involved with a particular focus on the application of advanced AI deep learning technologies in image processing The field of image processing has experienced unprecedented growth in recent years Image processing presents the latest state of the art developments alongside clear explanations of fundamental concepts and contemporary applications By emphasizing essential principles this book enables readers to not only implement algorithms and techniques with ease but also identify new challenges and explore innovative applications in the field New and advanced AI deep learning techniques for image processing as comparing against traditional image processing methods Numerous practical examples and AI image processing related applications A more intuitive development and clear explanation to the complex technology Updated image processing technology in medical chemical and ecological fields Extensive discussions of performance comparisons of various AI deep learning image processing methods This book is designed for students researchers and professionals seeking to enhance their knowledge gain practical insights and explore the evolving role of image processing in modern technology *Color Me Rich* Callisto Momesso, 2024-05-21 Can't Draw Stick Figures No Problem Cook Up Awesome Coloring Books with AI and Actually Sell Them Okay let's be real You've seen those cool coloring books everywhere and thought I could totally come up with ideas for that if only I could draw Good news Your lack of artistic wizardry is no longer a dealbreaker Your secret weapon Artificial Intelligence Color Me Rich How to Use AI to Create and Sell Unique Coloring Books No Art Skills Needed is your slightly nerdy super practical playbook for turning fun ideas into actual sellable coloring books without ever touching a drawing tablet Seriously If you can type you can do this Think of AI tools like Midjourney DALL-E 3 or Leonardo AI as your personal art genie You tell them what you want A cat wearing a tiny monocle riding a steampunk unicycle coloring page style and poof they conjure up images This guide shows you exactly how to talk to these digital genies to get awesome black and white line art that people will love to color No confusing tech jargon overload here We break it all down into easy follow along steps Become an AI Whisperer Learn simple tricks to write prompts that get you clean lines not weird smudges We've included copy pasteable templates Find Your Weird Niche Forget boring flowers unless you really love boring flowers We'll use AI to brainstorm cool quirky niches Sloths Doing Yoga in Space anyone and quickly check if people are actually searching for them on Etsy and Amazon Stick 'Em Together Learn how to easily assemble your AI art into a proper book format using tools you probably already know like Canva or even PowerPoint we won't judge We'll cover the must knows like page size and why

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AI and ML for Coders in PyTorch Laurence Moroney, 2025-06-30 Eager to learn AI and machine learning but unsure where to start Laurence Moroney s hands on code first guide demystifies complex AI concepts without relying on advanced mathematics Designed for programmers it focuses on practical applications using PyTorch helping you build real world models without feeling overwhelmed From computer vision and natural language processing NLP to generative AI with Hugging Face Transformers this book equips you with the skills most in demand for AI development today You ll also learn how to deploy your models across the web and cloud confidently Gain the confidence to apply AI without needing advanced math or theory expertise Discover how to build AI models for computer vision NLP and sequence modeling with PyTorch Learn generative AI techniques with Hugging Face Diffusers and Transformers

[AI Agents in Action](#) Micheal Lanham, 2025-03-25 In AI Agents in Action you ll learn how to build production ready assistants multi agent systems and behavioral agents You ll master the essential parts of an agent including retrieval augmented knowledge and memory while you create multi agent applications that can use software tools plan tasks autonomously and learn from experience As you explore the many interesting examples you ll work with state of the art tools like OpenAI Assistants API GPT Nexus LangChain Prompt Flow AutoGen and CrewAI

Artificial Intelligence (AI) in Cell and Genetic Engineering Sudip Mandal, 2025-06-24 This volume focuses on how different artificial intelligence AI techniques like Artificial Neural Network Support Vector Machine Random Forest k means Clustering Rough Set Theory and Convolutional Neural Network models are used in areas of cell and genetic engineering The chapters this book cover a variety of topics such as molecular modelling in drug discovery design of precision medicine protein structure prediction and analysis using AI Readers can also learn about AI based biomolecular spectroscopy cell culture system AI based drug discovery and next generation sequencing The book also discusses the application of AI in analysis of genetic diseases such as finding genetic insights of oral and maxillofacial cancer early screening and diagnosis of autism and classification of breast cancer microarray data Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics

lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and thorough Artificial Intelligence AI in Cell and Genetic Engineering is a valuable resource for readers in various research communities who want to learn more about the real life application of artificial intelligence and machine learning in systems biology biotechnology bioinformatics and health informatics especially in the field of cell and genetic engineering

ChatGPT & Other Chatbots: Cracking the Code Behind Your Smartest Conversations With AI Dizzy Davidson, 2025-07-29 If you've ever wondered how your smart assistant seems to read your mind If you feel lost in tech jargon but still want to master AI tools that can simplify your life If you're a parent student freelancer entrepreneur or just curious about how chatbots like ChatGPT actually work This book is for you ChatGPT Other Chatbots Cracking the Code Behind Your Smartest Conversations is your god-sent guide to understanding using and thriving with AI-powered assistants No jargon No fluff Just step by step advice real life stories and practical illustrations designed for readers from Grade 9 and up Whether you want help with writing emails organizing your day doing homework or brainstorming the next big idea this book unlocks the secrets behind the tech while keeping it human Packed with tips tricks and templates to instantly upgrade your productivity Understand how AI assistants really think without needing a PhD Designed for total beginners but insightful enough for curious pros Easy to read language with diagrams stories and cheat sheets Learn how to talk to chatbots to get smarter results yes it's a skill Discover how AI helps kids families and even seniors Learn how to stay safe protect your privacy and avoid digital scams Bonus chapters full of fun surprising and inspiring chatbot moments Whether you're just getting started or want to make the most of tools you already use ChatGPT Other Chatbot helps you become not just a smarter user but a more thoughtful digital citizen Let the conversation begin Get your copy today

The GAN Book Kartik Chaudhary, Key Features Learn generative learning approach of ML and its key differences from the discriminative learning approach Understand why GANs are difficult to train and key techniques to make their training stable to get impressive results Implement multiple variants of GANs for solving problems such as image generation image to image translation image super resolution and so on Book Description Generative Adversarial Networks have become quite popular due to their wide variety of applications in the fields of Computer Vision Digital Marketing Creative artwork and so on One key challenge with GANs is that they are very difficult to train This book is a comprehensive guide that highlights the common challenges of training GANs and also provides guidelines for developing GANs in such a way that they result in stable training and high quality results This book also explains the generative learning approach of training ML models and its key differences from the discriminative learning approach After covering the different generative learning approaches this book delves more into the Generative Adversarial Network and their key variants This book takes a hands-on approach and implements multiple generative models such as Pixel CNN VAE GAN DCGAN CGAN SGAN InfoGAN ACGAN WGAN LSGAN WGAN-GP Pix2Pix CycleGAN SRGAN

DiscoGAN CartoonGAN Context Encoder and so on It also provides a detailed explanation of some advanced GAN variants such as BigGAN PGGAN StyleGAN and so on This book will make you a GAN champion in no time What will you learn Learn about the generative learning approach of training ML models Understand key differences of the generative learning approach from the discriminative learning approach Learn about various generative learning approaches and key technical aspects behind them Understand and implement the Generative Adversarial Networks in details Learn about some key challenges faced during GAN training and two common training failure modes Build expertise in the best practices and guidelines for developing and training stable GANs Implement multiple variants of GANs and verify their results on your own datasets Learn about the adversarial examples some key applications of GANs and common evaluation strategies Who this book is for If you are a ML practitioner who wants to learn about generative learning approaches and get expertise in Generative Adversarial Networks for generating high quality and realistic content this book is for you Starting from a gentle introduction to the generative learning approaches this book takes you through different variants of GANs explaining some key technical and intuitive aspects about them This book provides hands on examples of multiple GAN variants and also explains different ways to evaluate them It covers key applications of GANs and also explains the adversarial examples

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Artificial Intelligence in HCI Helmut Degen,Stavroula Ntoa,2022-05-14 This book constitutes the refereed proceedings of the Third International Conference on Artificial Intelligence in HCI AI HCI 2022 which was held as part of HCI International 2022 and took place virtually during June 26 July 1 2022 A total of 1271 papers and 275 posters included in the 39 HCII 2022 proceedings volumes AI HCI 2022 includes a total of 39 papers they are grouped thematically as follows Human Centered AI Explainable and Trustworthy AI UX Design and Evaluation of AI Enabled Systems AI Applications in HCI

AI in Biological and Biomedical Imaging Xin Gao,Lihua Li,Min Xu,2022-01-17 Doctors Gao and Li hold patents related to artificial intelligence

Magical AI Grimoire Davezilla,2025-03-03 Traditionally we think of magic done with physical objects ritual tools candles and other paraphernalia Today some of the most powerful tools at a magician s fingertips are computers and smart devices Letting go of conscious control and direction is essential to creating powerful magic and one of the most effective tricks we can use is AI This book helps you to understand how to work with technology in the practice of your magic AI learns and adapts to you it s symbiosis on a chaos magic level

Performance Evaluation and Benchmarking Raghunath Nambiar,Meikel Poess,2025-07-29 This book constitutes the refereed proceedings of the 16th TPC Technology Conference on Performance Evaluation and Benchmarking TPCTC 2024 held in Guangzhou China during August 30 2024 The 7 full papers included in this book were

carefully reviewed and selected from 12 submissions The proceedings also include one invited talk and one paper based on a panel discussion with industry and academic leaders The book focusses on providing vendors with a valuable tool to showcase the performance competitiveness of their current offerings while also aiding in the enhancement and tracking of products still in development

Artificial Intelligence for Digitising Industry Applications

Ovidiu Vermesan, 2022-09-01 This book provides in depth insights into use cases implementing artificial intelligence AI applications at the edge It covers new ideas concepts research and innovation to enable the development and deployment of AI the industrial internet of things IIoT edge computing and digital twin technologies in industrial environments The work is based on the research results and activities of the AI4DI project including an overview of industrial use cases research technological innovation validation and deployment This book's sections build on the research development and innovative ideas elaborated for applications in five industries automotive semiconductor industrial machinery food and beverage and transportation The articles included under each of these five industrial sectors discuss AI based methods techniques models algorithms and supporting technologies such as IIoT edge computing digital twins collaborative robots silicon born AI circuit concepts neuromorphic architectures and augmented intelligence that are anticipating the development of Industry 5.0

Automotive applications cover use cases addressing AI based solutions for inbound logistics and assembly process optimisation autonomous reconfigurable battery systems virtual AI training platforms for robot learning autonomous mobile robotic agents and predictive maintenance for machines on the level of a digital twin AI based technologies and applications in the semiconductor manufacturing industry address use cases related to AI based failure modes and effects analysis assistants neural networks for predicting critical 3D dimensions in MEMS inertial sensors machine vision systems developed in the wafer inspection production line semiconductor wafer fault classifications automatic inspection of scanning electron microscope cross section images for technology verification anomaly detection on wire bond process trace data and optical inspection The use cases presented for machinery and industrial equipment industry applications cover topics related to wood machinery with the perception of the surrounding environment and intelligent robot applications AI IIoT and robotics solutions are highlighted for the food and beverage industry presenting use cases addressing novel AI based environmental monitoring autonomous environment aware quality control systems for Champagne production and production process optimisation and predictive maintenance for soybeans manufacturing For the transportation sector the use cases presented cover the mobility as a service development of AI based fleet management for supporting multimodal transport This book highlights the significant technological challenges that AI application developments in industrial sectors are facing presenting several research challenges and open issues that should guide future development for evolution towards an environment friendly Industry 5.0 The challenges presented for AI based applications in industrial environments include issues related to complexity multidisciplinary and heterogeneity convergence of AI with other technologies energy

consumption and efficiency knowledge acquisition reasoning with limited data fusion of heterogeneous data availability of reliable data sets verification validation and testing for decision making processes

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