

# #1 AI Image Generator



500 000+  
Users



# [Ai Image Generator Latest Install](#)

**Ben Auffarth**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

## **Ai Image Generator Latest Install:**

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 General 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 English to French translator A text generating model as powerful as GPT 2 A diffusion model that produces realistic flower images Music generators using GANs and Transformers An image style transfer model A zero shot know it all agent The generative AI projects you create use the same underlying techniques and technologies as full scale models like GPT 4 and Stable Diffusion You don t need to be a machine learning expert you can get started with just some basic Python programming skills About the technology Transformers Generative Adversarial Networks GANs diffusion models LLMs and other powerful deep learning patterns have radically changed the way we manipulate text images and sound Generative AI may seem like magic at first but with a little Python the PyTorch framework and some practice you can build interesting and useful models that will train and run on your laptop This book shows you how About the book Learn Generative AI with PyTorch introduces the underlying mechanics of generative AI by helping you build your own working AI models You ll begin by creating simple images using a GAN and then progress to writing a language translation transformer line by line As you work through the fun and fascinating projects you ll train models to create anime images write like Hemingway make music like Mozart and more You just need Python and a few machine learning basics to get started You ll learn the rest as you go What s inside Build an English to French translator Create a text generation LLM Train a diffusion model to produce high resolution images Music generators using GANs and Transformers About the reader Examples use simple Python No deep learning experience required About the author Mark Liu is the founding director of the Master of Science in Finance program at the University of Kentucky The technical editor on this book was Emmanuel Maggiori Generative AI Srinivasa Rao Thumala, Sarath Krishna Mandava , Hari Krishna Madathala, Sairam Durgaraju (Ram), Aryendra Dalal, 2025-01-01 The book Generative AI is a comprehensive exploration of the rapidly evolving field of generative artificial intelligence It provides readers with a thorough understanding of the foundational concepts advanced techniques and diverse applications of generative AI Key topics covered include foundational technologies like neural networks autoencoders and advanced models such as Generative Adversarial Networks GANs Variational Autoencoders VAEs and diffusion models The book emphasises the transformative potential of generative AI in fields such as healthcare entertainment creative arts and software development It offers practical insights through hands on projects such as building chatbots creating AI generated art and

synthesising audio making it valuable for both beginners and professionals A distinguishing feature of the book is its focus on ethical considerations addressing issues like bias misinformation and the societal implications of AI generated content It also delves into optimisation strategies scalability and deployment challenges providing a well rounded perspective for readers aiming to implement generative AI in real world scenarios With a structured approach the book balances theoretical concepts and practical applications supported by detailed case studies and future research directions The book Generative AI benefits readers by providing a thorough understanding of the principles technologies and applications of generative artificial intelligence It balances theoretical insights with practical implementation through hands on projects like chatbot development AI generated art and audio synthesis Readers are introduced to diverse applications across industries such as healthcare entertainment and software development enabling them to explore innovative opportunities The book also addresses critical ethical and societal concerns fostering responsible AI usage By discussing future trends optimisation strategies and scalability it equips readers with the knowledge and tools to excel in the rapidly evolving field of generative AI making it an invaluable resource for students professionals and researchers alike

**Ultimate Generative AI Solutions on Google Cloud** Arun Pandey, 2024-12-29 Unlock Generative AI's Potential Transform Ideas into Reality on Google Cloud Key Features Step by step guidance for building Generative AI apps on Google Cloud Platform Pro tips for fine tuning models to achieve optimal performance Industry specific use cases for practical hands on learning Book Description Generative AI powered by Google Cloud Platform GCP is reshaping industries with its advanced capabilities in automating and enhancing complex tasks The Ultimate Generative AI Solutions on Google Cloud is your comprehensive guide to harnessing this powerful combination to innovate and excel in your job role It explores foundational machine learning concepts and dives deep into Generative AI providing the essential knowledge needed to conceptualize develop and deploy cutting edge AI solutions Within these pages you'll explore Large Language Models LLMs Prompt engineering Fine tuning techniques and the latest advancements in AI with special emphasis on Parameter Efficient Fine Tuning PEFT and Reinforcement Learning with Human Feedback RLHF You'll also learn about the integration of LangChain and Retrieval Augmented Generation RAG to enhance AI capabilities By mastering these techniques you can optimize model performance while conserving resources The integration of GCP services simplifies the development process enabling the creation of robust AI applications with ease By the end of this book you will not only understand the technical aspects of Generative AI but also gain practical skills that can transform your work to drive innovation and boost operational efficiency with Generative AI on GCP What you will learn Build and deploy cutting edge generative AI solutions using Google Cloud LangChain and RAG Fine tune large language models LLMs with PEFT to meet precise business objectives Master prompt engineering techniques to enhance model performance with GCP tools Optimize production AI for efficiency and scalability using GCP's Cloud Functions and Cloud Run Apply real world industry use cases to drive innovation and solve complex problems with LLMOps Manage and streamline AI

projects effectively using GCP services like Dataflow Pub Sub and Monitoring Table of Contents1 Generative AI Essentials2 Google Cloud Basics3 Getting Started with Large Language Models4 Prompt Engineering and Contextual Learning5 Fine Tuning a Large Language Model6 Parameter Efficient Fine Tuning PEFT 7 Reinforcement Learning with Human Feedback8 Model Optimization9 LLM Ops for Managing and Monitoring AI Projects10 Harnessing RAG and LangChain11 Case Studies and Real World Implementations

*The AI Artist* Jamal Faisal Almutawa,2024-05-05 The AI Artist explores the exciting world of AI generated art and its implications It covers the basics of how AI models create images from text prompts the wide range of applications across creative industries tips for crafting effective prompts and thoughts on how AI art may revolutionize fields like gaming and movies in the future **AI-Augmented Graphic Designer:** HEBooks, Tired of spending hours on repetitive tasks chasing trends or struggling to keep up with client demands You re not alone In today s fast paced creative world graphic designers are under pressure to produce more faster smarter and trendier than ever before But the tools you ve been using aren t keeping up That s where AI Augmented Graphic Designer comes in This book gives you the ultimate competitive edge how to use AI not as a replacement but as a powerful creative partner Inside you ll discover How to generate stunning visuals in seconds using tools like Midjourney DALL E and Adobe Firefly How to spot and predict visual trends before they hit the mainstream How to automate tedious tasks like resizing background removal and layout adjustments How to build your own AI toolkit tailored to your workflow not hype driven tech but real tools that work How to future proof your career and stand out in a crowded market Whether you re a freelancer agency designer or student this book arms you with the skills to create smarter faster and more strategically so you can focus on what matters your creativity Don t get left behind Master AI before it masters your job The AI Augmented Graphic Designer Your shortcut to working like the pros of tomorrow Learn Python Generative AI Zonunfeli Ralte,Indrajit Kar,2024-02-01 Learn to unleash the power of AI creativity

**KEY FEATURES** Understand the core concepts related to generative AI Different types of generative models and their applications Learn how to design generative AI neural networks using Python and TensorFlow **DESCRIPTION** This book researches the intricate world of generative Artificial Intelligence offering readers an extensive understanding of various components and applications in this field The book begins with an in depth analysis of generative models providing a solid foundation and exploring their combination nuances It then focuses on enhancing TransVAE a variational autoencoder and introduces the Swin Transformer in generative AI The inclusion of cutting edge applications like building an image search using Pinecone and a vector database further enriches its content The narrative shifts to practical applications showcasing GenAI s impact in healthcare retail and finance with real world examples and innovative solutions In the healthcare sector it emphasizes AI s transformative role in diagnostics and patient care In retail and finance it illustrates how AI revolutionizes customer engagement and decision making The book concludes by synthesizing key learnings offering insights into the future of generative AI and making it a comprehensive guide for diverse industries Readers will find themselves equipped with a

profound understanding of generative AI its current applications and its boundless potential for future innovations WHAT YOU WILL LEARN Acquire practical skills in designing and implementing various generative AI models Gain expertise in vector databases and image embeddings crucial for image search and data retrieval Navigate challenges in healthcare retail and finance using sector specific insights Generate images and text with VAEs GANs LLMs and vector databases Focus on both traditional and cutting edge techniques in generative AI WHO THIS BOOK IS FOR This book is for current and aspiring emerging AI deep learning professionals architects students and anyone who is starting and learning a rewarding career in generative AI TABLE OF CONTENTS 1 Introducing Generative AI 2 Designing Generative Adversarial Networks 3 Training and Developing Generative Adversarial Networks 4 Architecting Auto Encoder for Generative AI 5 Building and Training Generative Autoencoders 6 Designing Generative Variation Auto Encoder 7 Building Variational Autoencoders for Generative AI 8 Fundamental of Designing New Age Generative Vision Transformer 9 Implementing Generative Vision Transformer 10 Architectural Refactoring for Generative Modeling 11 Major Technical Roadblocks in Generative AI and Way Forward 12 Overview and Application of Generative AI Models 13 Key Learnings **The AI Content Creator** Claire

Donnelly,2025-08-28 Are you struggling to keep up with the relentless demand for content Feeling overwhelmed by deadlines research and the pressure to stay relevant You re not alone and there s a smarter way forward The AI Content Creator is your step by step guide to transforming how you create Instead of burning out you ll learn how to work alongside AI as a powerful co pilot that helps you generate ideas draft faster design visuals and streamline your entire workflow Inside this book you ll discover how to Brainstorm endless fresh content ideas with AI powered tools Overcome writer s block and produce compelling copy in minutes Create professional quality graphics and visuals without design skills Automate tedious tasks like transcription captioning and editing Optimize your content for reach engagement and impact Build an AI tool stack that fits your needs without the overwhelm Navigate ethical concerns like bias copyright and transparency Whether you re a blogger marketer entrepreneur or creative professional this book equips you with practical strategies to save time boost productivity and elevate your content The future of content creation is here Stop feeling left behind start working smarter with AI Grab your copy today and unlock the workflow of your dreams **New Kind of Machine Learning-Cellular**

**Automata Model** Parimal Pal Chaudhuri,Adip Dutta,Somshubhro Pal Choudhury,Dipanwita Roy Chowdhury,Raju Hazari,2025-04-25 This book introduces the CAML model a novel integration of Cellular Automata CA and Machine Learning ML designed to deliver efficient computation with minimal training data and low computing resources CAML operates through two key perspectives one where CA is enhanced by ML to handle complex non linear evolution and another where CA strengthens ML by leveraging linear CA evolution to process linear functions effectively The book focuses on real world applications of CA such as in Computational Biology where CAML models protein chains to predict mutations linked to human diseases using carefully designed CA rule sequences for each amino acid Another significant application is in multi

language Sentiment Analysis where the model analyzes text in five languages Hindi Arabic English Greek and Georgian without relying on pre trained language models CAML uses CA rules for Unicode character modeling offering a transparent interpretable prediction algorithm Overall CAML aims to drive industrial and societal applications of CA with an emphasis on transparent results and efficient hardware design through CA s regular modular and scalable structure      **Artificial**

**Intelligence for Urban Planning** Thomas W. Sanchez,2025-09-22 This book aims to introduce planners to AI outlining essential concepts terminologies and methodologies AI now promises to reshape urban planning but as with many technological innovations AI also introduces ethical practical and organizational challenges Understanding both AI s current capabilities and its limitations is essential for planners even as we acknowledge the rapid and unpredictable nature of its evolution Chapters address some of these complexities not by providing definitive answers but by introducing urban planners to core AI topics The book shows how planners can effectively use AI in their daily practices engage constructively with technical specialists and critically assess the appropriateness of these technologies in different planning contexts This book will be of interest to both urban planning professionals and researchers      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 DescriptionMachines 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 Foundations, Developments, and Applications** Kannan, Rajkumar,Ahmad,

Muneer,2025-03-26 In recent years the field of generative artificial intelligence AI has witnessed remarkable advancements

transforming various domains from art and music to language and healthcare Advanced techniques such as conditional generation style transfer and unsupervised learning showcase the cutting edge research shaping the field The ability of generative AI models to create novel content autonomously has sparked immense interest and innovation Future directions provide speculations for potential breakthroughs challenges and opportunities for further research and innovation

Generative AI Foundations Developments and Applications serves as a resource to understanding generative AI across various domains including natural language processing computer vision and drug discovery It explores the theoretical foundations latest developments and practical applications of generative AI Covering topics such as prompt engineering multimodal data fusion and natural language processing this book is an excellent resource for computer scientists computer engineers practitioners professionals researchers scholars academicians and more Handbook of Design and Industry

Maria João Félix,Rita Assoreira Almendra,Fernando Moreira da Silva,Fátima Pombo,Paulo Jorge de Sousa Cruz,2025-09-30

The twenty first century has been beset by a global pandemic war and increasingly concerning environmental disasters Designers and industries have been forced to imagine a world in which the only way to move forward is to look back The design and industry sectors need to understand the role they can play in removing obstacles to social progress and work together to create healthier human societies that can interact with the world in a sustainable way This book presents contributions from leading experts that reveal that a better and more prosperous world is achievable through good work and system design This book consists of chapters that bring together researchers academics policy makers and designers from technology companies and business associations with the objective of developing a focused vision that enhances innovation through design and industry for a better future Through a transdisciplinary scientific exchange it lists responses to the challenges of climate change and environmental degradation that will contribute to a more modern resource efficient competitive economy with smart sustainable and inclusive growth promoting knowledge inter sector collaboration health education and a digital society for all By putting the human at the heart of what can be accomplished this book investigates better design in the disciplines of work healthcare product system manufacturing and industry The reader will gather an interdisciplinary perspective on what good design can achieve and why it is needed to challenge the climate crisis The Handbook of Design and Industry Scenarios for Sustainable Futures is essential reading for researchers and academics in the fields and disciplines of ergonomics human factors occupational health and safety industrial design product design industrial engineering materials engineering process engineering computer engineering communication design electronics and telecommunications engineering **Frontier Computing: Vol 1** Jason C. Hung,Neil Yen,Jia-Wei Chang,2025-02-20 This book covers issues of computer science application on cloud computing information security and describes applications of frontier computing Frontier Computing conference aims at providing an open forum to reach a comprehensive understanding to the recent advances and emergence in information technology science and engineering with the themes in the scope of

Communication Network Business Intelligence and Knowledge Management Web Intelligence and any related fields that prompt the development of information technology Articles cover a wide spectrum of topics database and data mining networking and communications web and internet of things embedded system soft computing social network analysis security and privacy optics communication and ubiquitous pervasive computing Many papers have shown their great academic potential and value and in addition indicate promising directions of research in the focused realm of this conference series Readers who will benefit from this comprehensive overview of the latest in information technology include students researchers and industry professionals in the fields of cloud computing internet of things machine learning information security multimedia systems information technology and so on The book also serves as a comprehensive overview for young investigators looking to start a new research program

**AI-Driven Project Management** Kristian Baine,2024-04-02 Accelerate your next project with artificial intelligence and ChatGPT In AI Driven Project Management Harnessing the Power of Artificial Intelligence and ChatGPT to Achieve Peak Productivity and Success veteran IT and project management advisor Kristian Baine delivers an insightful collection of strategies for automating the administration and management of projects In the book the author focuses on four key areas where project leaders can achieve improved results with AI s data centric capabilities minimizing surprises minimizing bias increasing standards and accelerating decision making You ll also find Primers on the role of AI and ChatGPT in Agile Hybrid and Predictive approaches to project management How to accurately forecast a project with ChatGPT Techniques for crafting impactful AI strategy using AI project management principles Perfect for managers executives and business leaders everywhere AI Driven Project Management is also a must read for project management professionals tech professionals and enthusiasts and anyone else interested in the intersection of artificial intelligence machine learning and project management

**Handbook of AI-Based Models in Healthcare and Medicine** Bhanu Chander,Koppala Guravaiah,B. Anoop,G. Kumaravelan,2024-02-21 This handbook provides thorough in depth and well focused developments of artificial intelligence AI machine learning ML deep learning DL natural language processing NLP cryptography and blockchain approaches along with their applications focused on healthcare systems Handbook of AI Based Models in Healthcare and Medicine Approaches Theories and Applications highlights different approaches theories and applications of intelligent systems from a practical as well as a theoretical view of the healthcare domain It uses a medically oriented approach in its discussions of human biology healthcare and medicine and presents NLP based medical reports and medicine enhancements The handbook includes advanced models of ML and DL for the management of healthcare systems and also discusses blockchain based healthcare management In addition the handbook offers use cases where AI ML and DL can help solve healthcare complications Undergraduate and postgraduate students academicians researchers and industry professionals who have an interest in understanding the applications of ML DL in the healthcare setting will want this reference on their bookshelf

**The Science of AI: Designing the Next**

**Generation of Intelligent Systems** Radhakrishnan Arikrishna Perumal, 2025-01-01 Welcome to the next frontier of artificial intelligence a world where machines don't just think they imagine generate and collaborate Designing the Next Generation of Intelligent Systems is a definitive guide to understanding how generative AI is reshaping industries unlocking human potential and paving the way for intelligent systems that learn create and evolve Written by Radhakrishnan Arikrishna Perumal a Principal Software Architect AI researcher and acclaimed technology author this book explores the science and real world applications of generative AI from foundational neural networks to the complex behaviors of Large Language Models LLMs like GPT 4 Claude and Google Gemini Whether you're a developer data scientist researcher product manager educator or policy maker this book equips you with the knowledge frameworks and vision to navigate the transformative wave of generative AI It bridges theory with practice covering the mathematical foundations model architectures training pipelines deployment workflows ethical challenges and enterprise use cases What You'll Learn The evolution of deep learning and the rise of generative models Core concepts behind VAEs GANs Transformers Diffusion Models and LLMs Inside look at frontier AI systems like GPT 4 Claude and Gemini How to build and fine tune custom LLMs with open source tools Practical strategies for training deploying and scaling generative AI models using cloud and edge computing Pipelines LLM Ops and tools like Hugging Face LangChain and Azure AI Studio Techniques for data augmentation model optimization and prompt engineering Critical insights into security interpretability bias and AI alignment Use cases in healthcare law education finance and enterprise automation The future of multimodal AI ethical design and human AI collaboration Why This Book Unlike generic AI introductions or academic research texts this book offers both breadth and depth structured to support readers who want a full spectrum understanding of generative AI from foundational knowledge to frontier innovation It combines hands on techniques with big picture thinking enriched with real world examples case studies and tool comparisons With over 35 chapters and 400 pages of comprehensive actionable insight this is your essential guide to the future of artificial intelligence a future where creativity cognition and computation converge Who Should Read This Book AI engineers and machine learning developers Cloud architects and DevOps professionals Data scientists and analysts Tech entrepreneurs and business leaders Academics researchers and students in AI and data science Policy makers and professionals shaping the ethical use of AI About the Author Radhakrishnan Arikrishna Perumal is a Principal Architect with 22 years in IT and AI innovation He has authored multiple books on technology delivered keynotes at global conferences and contributes to the advancement of responsible and scalable AI systems His work spans enterprise architecture generative AI research and technical leadership in the cloud native ecosystem Start your journey into the next generation of intelligent systems This isn't just a book it's a blueprint for building the future with AI

**Deep Generative Models for Integrative Analysis of Alzheimer's Biomarkers** Kumar, Abhishek, Kumar, S. Rakesh, Gayathri, N., Srivel, R., C., Dhaya, 2024-11-01 The integration of generative AI and deep learning techniques for Alzheimer's disease detection significantly impacts the

research community by advancing diagnostic accuracy and providing a comprehensive understanding of the disease. By combining multiple data modalities including imaging, genetics, and clinical data, researchers can improve diagnostic precision and develop personalized treatment strategies. Generative AI facilitates efficient data utilization through dataset augmentation, fostering innovation and collaboration across interdisciplinary fields. These methodologies forward the exploration of new diagnostic tools while expediting their application in clinical practice, benefiting patients through early detection and intervention. The incorporation of generative AI may enhance research capabilities, promote collaboration, and improve Alzheimer's disease management and patient outcomes.

**Deep Generative Models for Integrative Analysis of Alzheimer's Biomarkers** explores the integration of deep generative models in disease diagnosis, biomarker identification, and prediction. It examines the use of tools like data analysis, natural language processing, and machine learning for effective Alzheimer's research. This book covers topics such as data analysis, biomedicine, and machine learning and is a useful resource for computer engineers, biologists, scientists, medical professionals, healthcare workers, academicians, and researchers.

**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 in 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 optimization, 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

Generative AI: Foundations, Models and Applications Dr. K. VANITHA SIDAMBARANATHAN, Dr. R. SRIVIDHYA, Dr. P. EDITH LINDA, Dr. LINCE RACHEL VARGHESE, 2025-10-15 Generative AI Foundations Models and Applications provides a comprehensive exploration of one of the most transformative areas of artificial intelligence Designed for students researchers educators and professionals this book offers a balanced blend of theory models and real world use cases of generative AI The text begins by introducing the fundamentals of generative modeling covering the mathematical and conceptual underpinnings that make generative AI possible It then progresses into a detailed study of prominent models including Generative Adversarial Networks (GANs) Variational Autoencoders (VAEs) Diffusion Models Large Language Models (LLMs) and Multimodal Systems Beyond the foundations the book emphasizes the practical applications of generative AI across industries ranging from natural language processing computer vision and healthcare to education creative arts business innovation and scientific research Ethical considerations challenges and future trends are also discussed equipping readers to critically analyze the opportunities and risks of this rapidly evolving field With clear explanations case studies and an application driven perspective this book serves as both an academic resource and a practical guide for those seeking to understand and leverage generative AI in real world contexts

**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

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