

# Deep Learning Coursera

**Deep Learning Systems** Andres Rodriguez 2022-05-31 This book describes deep learning systems: the algorithms, compilers, and processor components to efficiently train and deploy deep learning models for commercial applications. The exponential growth in computational power is slowing at a time when the amount of compute consumed by state-of-the-art deep learning (DL) workloads is rapidly growing. Model size, serving latency, and power constraints are a significant challenge in the deployment of DL models for many applications. Therefore, it is imperative to codesign algorithms, compilers, and hardware to accelerate advances in this field with holistic system-level and algorithm solutions that improve performance, power, and efficiency. Advancing DL systems generally involves three types of engineers: (1) data scientists that utilize and develop DL algorithms in partnership with domain experts, such as medical, economic, or climate scientists; (2) hardware designers that develop specialized hardware to accelerate the components in the DL models; and (3) performance and compiler engineers that optimize software to run more efficiently on a given hardware. Hardware engineers should be aware of the characteristics and components of production and academic models likely to be adopted by industry to guide design decisions impacting future hardware. Data scientists should be aware of deployment platform constraints when designing models. Performance engineers should support optimizations across diverse models, libraries, and hardware targets. The purpose of this book is to provide a solid understanding of (1) the design, training, and applications of DL algorithms in industry; (2) the compiler techniques to map deep learning code to hardware targets; and (3) the critical hardware features that accelerate DL systems. This book aims to facilitate co-innovation for the advancement of DL systems. It is written for engineers working in one or more of these areas who seek to understand the entire system stack in order to better collaborate with engineers working in other parts of the system stack. The book details advancements and adoption of DL models in industry, explains the training and deployment process, describes the essential hardware architectural features needed for today's and future models, and details advances in DL compilers to efficiently execute algorithms across various hardware targets. Unique in this book is the holistic exposition of the entire DL system stack, the emphasis on commercial applications, and the practical techniques to design models and accelerate their performance. The author is fortunate to work with hardware, software, data scientist, and research teams across many high-technology companies with hyperscale data centers. These companies employ many of the examples and methods provided throughout the book.

**Python: Real World Machine Learning** Prateek Joshi 2016-11-14 Learn to solve challenging data science problems by building powerful machine learning models using Python About This Book Understand which algorithms to use in a given context with the help of this exciting recipe-based guide This practical tutorial tackles real-world computing problems through a rigorous and effective approach Build state-of-the-art models and develop personalized recommendations to perform machine learning at scale Who This Book Is For This Learning Path is for Python programmers who are looking to use machine learning algorithms to create real-world applications. It is ideal for Python professionals who want to work with large and complex datasets and Python developers and analysts or data scientists who are looking to add to their existing skills by accessing some of the most powerful recent trends in data science. Experience with Python, Jupyter Notebooks, and command-line execution together with a good level of mathematical knowledge to understand the concepts is expected. Machine learning basic knowledge is also expected. What You Will Learn Use predictive modeling and apply it to real-world problems Understand how to perform market segmentation using unsupervised learning Apply your new-found skills to solve real problems, through clearly-explained code for every technique and test Compete with top data scientists by gaining a practical and theoretical understanding of cutting-edge deep learning algorithms Increase predictive accuracy with deep learning and scalable data-handling techniques Work with modern state-of-the-art large-scale machine learning techniques Learn to use Python code to implement a range of machine learning algorithms and techniques In Detail Machine learning is increasingly spreading in the modern data-driven world. It is used extensively across many fields such as search engines, robotics,

self-driving cars, and more. Machine learning is transforming the way we understand and interact with the world around us. In the first module, Python Machine Learning Cookbook, you will learn how to perform various machine learning tasks using a wide variety of machine learning algorithms to solve real-world problems and use Python to implement these algorithms. The second module, Advanced Machine Learning with Python, is designed to take you on a guided tour of the most relevant and powerful machine learning techniques and you'll acquire a broad set of powerful skills in the area of feature selection and feature engineering. The third module in this learning path, Large Scale Machine Learning with Python, dives into scalable machine learning and the three forms of scalability. It covers the most effective machine learning techniques on a map reduce framework in Hadoop and Spark in Python. This Learning Path will teach you Python machine learning for the real world. The machine learning techniques covered in this Learning Path are at the forefront of commercial practice. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Python Machine Learning Cookbook by Prateek Joshi Advanced Machine Learning with Python by John Hearty Large Scale Machine Learning with Python by Bastiaan Sjardin, Alberto Boschetti, Luca Massaron Style and approach This course is a smooth learning path that will teach you how to get started with Python machine learning for the real world, and develop solutions to real-world problems. Through this comprehensive course, you'll learn to create the most effective machine learning techniques from scratch and more!

**Inteligencia artificial** Lasse Rouhiainen 2018-11-20 La inteligencia artificial nos ayuda a hacer casi todo más barato, más rápido, más efectivo y cambiará profundamente sectores como el de la conducción, los viajes, la salud, educación, comercio, agricultura, finanzas, ventas y el marketing. De hecho, la inteligencia artificial cambiará drásticamente nuestra sociedad de forma global. Este libro incluye fascinantes e interesantes temas relacionados con la inteligencia artificial y también nos da acceso a un gran número de recursos, ideas y consejos que ayudarán a entender cómo la inteligencia artificial va a cambiar nuestra vida.

**Inteligencia artificial** Paola Villarreal 2024-07-20 El nuevo cerebro electrónico Nadie puede negar que estamos viviendo la era de la inteligencia artificial: está en nuestros teléfonos, computadoras, cuentas bancarias, vehículos, electrodomésticos... y la lista sigue y sigue, pues es un hecho que la IA continúa expandiéndose en cada rincón. Sin embargo, de todo lo que se ha dicho sobre ella y con todo lo que se encuentra en internet, parece mentira que aún existan vacíos informativos que se llenan con especulación. Paola Villarreal, una de las cien mujeres más influyentes del mundo según la BBC y creadora de «Data for Justice», explica en esta obra todo lo que necesitas saber sobre la IA: qué es, cómo llegó al mundo, a dónde va, cuánto nos beneficiamos con ella, y lo más importante: ¿nos sustituirá algún día?

**Practical Electronic Design for Experimenters** Louis E. Frenzel 2020-03-27 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Learn the basics of electronics and start designing and building your own creations! This follow-up to the bestselling Practical Electronics for Inventors shows hobbyists, makers, and students how to design useful electronic devices from readily available parts, integrated circuits, modules, and subassemblies. Practical Electronic Design for Experimenters gives you the knowledge necessary to develop and construct your own functioning gadgets. The book stresses that the real-world applications of electronics design—from autonomous robots to solar-powered devices—can be fun and far-reaching. Coverage includes:

- Design resources
- Prototyping and simulation
- Testing and measuring
- Common circuit design techniques
- Power supply design
- Amplifier design
- Signal source design
- Filter design
- Designing with electromechanical devices
- Digital design
- Programmable logic devices
- Designing with microcontrollers
- Component selection

Troubleshooting and debugging

**Applying Computational Intelligence for Social Good** 2024-01-14 Applying Computational Intelligence for Social Good: Track, Understand and Build a Better World, Volume 132 presents views on how Computational Intelligent and ICT technologies can be applied to ease or

solve social problems by sharing examples of research results from studies of social anxiety, environmental issues, mobility of the disabled, and problems in social safety. Sample chapters in this release include Why is implementing Computational Intelligence for social good so challenging? Principles and its Application, Smart crisis management system for road accidents using Geo-Spatial Machine Learning Techniques, Residential Energy Management System (REMS) Using Machine Learning, Text-Based Personality Prediction using XLNet, and much more. - Explores a number of key themes, including self-organization, complex adaptive systems, and emergent computation for solving socially relevant problems - Focuses on Forecasting applications, Human Behavior and Critics response analysis in social forums, Healthcare monitoring Systems, Disaster Management, Industrial management, and most recently, Epidemics and Outbreaks - Brings together many different aspects of the current research on intelligence technologies, such as neural networks, support vector machines, fuzzy logic, and evolutionary computation

*Introduction To Machine Learning* Dr. S. RANGA SWAMY 2021-04-26 Machine learning was built from an engineering perspective, while machine learning was born out of a computer science approach. In the one side the operations may be looked at as two different areas, but they have grown in tandem over the past years and around the same period. Other than the univariate methodology (the conventional way of doing things), there has been a great rise in non-uniform approaches. , algorithmic and graphical simulations are being used for statistical and quantitative trading in all kinds of markets. Also, the functional applicability of Bayesian approaches has been significantly improved by the development of a variety of estimated inference algorithms such as variational Bayes and expectation propagation. Related to the effect of recent kernels, broader versions have had a huge impact on both algorithms and implementations. This textbook provides a detailed exploration of recent innovations in these fields thus describing the basic elements in these fields and thus offering a concise introduction to these fields. The book is accompanied by a great deal of supplementary content, example problems as well as the full collection of figures included in the book.

*Cryptoassets: The Innovative Investor's Guide to Bitcoin and Beyond* Chris Burniske 2017-10-20 The innovative investor's guide to an entirely new asset class—from two experts on the cutting edge With the rise of bitcoin and blockchain technology, investors can capitalize on the greatest investment opportunity since the Internet. Bitcoin was the first cryptoasset, but today there are over 800 and counting, including ether, ripple, litecoin, monero, and more. This clear, concise, and accessible guide from two industry insiders shows you how to navigate this brave new blockchain world—and how to invest in these emerging assets to secure your financial future. Cryptoassets gives you all the tools you need: \* An actionable framework for investigating and valuing cryptoassets \* Portfolio management techniques to maximize returns while managing risk \* Historical context and tips to navigate inevitable bubbles and manias \* Practical guides to exchanges, wallets, capital market vehicles, and ICOs \* Predictions on how blockchain technology may disrupt current portfolios In addition to offering smart investment strategies, this authoritative resource will help you understand how these assets were created, how they work, and how they are evolving amid the blockchain revolution. The authors define a clear and original cryptoasset taxonomy, composed of cryptocurrencies, cryptocommodities, and cryptotokens, with insights into how each subset is blending technology and markets. You'll find a variety of methods to invest in these assets, whether through global exchanges trading 24/7 or initial cryptoasset offerings (ICOs). By sequentially building on the concepts of each prior chapter, the book will provide you with a full understanding of the cryptoasset economy and the opportunities that await the innovative investor. Cryptoassets represent the future of money and markets. This book is your guide to that future.

*Machine Learning and Deep Learning Using Python and TensorFlow* Venkata Reddy Konasani 2021-04-29 Understand the principles and practices of machine learning and deep learning This hands-on guide lays out machine learning and deep learning techniques and technologies in a style that is approachable, using just the basic math required. Written by a pair of experts in the field, Machine Learning and Deep Learning Using Python and TensorFlow contains case studies in several industries, including banking, insurance, e-commerce, retail, and healthcare. The book shows how to utilize machine learning and deep learning functions in today's smart devices and apps. You will get download links for datasets, code, and sample projects referred to in the

text. Coverage includes: Machine learning and deep learning concepts Python programming and statistics fundamentals Regression and logistic regression Decision trees Model selection and cross-validation Cluster analysis Random forests and boosting Artificial neural networks TensorFlow and Keras Deep learning hyperparameters Convolutional neural networks Recurrent neural networks and long short-term memory **Berkeley Engineer** 2012

**Large Scale Machine Learning with Python** Luca Massaron 2016-08-03 Learn to build powerful machine learning models quickly and deploy large-scale predictive applications Key Features [\*]Design, engineer and deploy scalable machine learning solutions with the power of Python [\*]Take command of Hadoop and Spark with Python for effective machine learning on a map reduce framework [\*]Build state-of-the-art models and develop personalized recommendations to perform machine learning at scale Book DescriptionLarge Python machine learning projects involve new problems associated with specialized machine learning architectures and designs that many data scientists have yet to tackle. But finding algorithms and designing and building platforms that deal with large sets of data is a growing need. Data scientists have to manage and maintain increasingly complex data projects, and with the rise of big data comes an increasing demand for computational and algorithmic efficiency. Large Scale Machine Learning with Python uncovers a new wave of machine learning algorithms that meet scalability demands together with a high predictive accuracy. Dive into scalable machine learning and the three forms of scalability. Speed up algorithms that can be used on a desktop computer with tips on parallelization and memory allocation. Get to grips with new algorithms that are specifically designed for large projects and can handle bigger files, and learn about machine learning in big data environments. We will also cover the most effective machine learning techniques on a map reduce framework in Hadoop and Spark in Python. What you will learn [\*]Apply the most scalable machine learning algorithms [\*]Work with modern state-of-the-art large-scale machine learning techniques [\*]Increase predictive accuracy with deep learning and scalable data-handling techniques [\*]Improve your work by combining the MapReduce framework with Spark [\*]Build powerful ensembles at scale [\*] Use data streams to train linear and non-linear predictive models from extremely large datasets using a single machine Who this book is for This book is for anyone who intends to work with large and complex data sets. Familiarity with basic Python and machine learning concepts is recommended. Working knowledge in statistics and computational mathematics would also be helpful.

**Data Science** Prabhu TL 2025-04-12 Data Science: From Basics to Advanced Unlock the Power of Data to Build Intelligent Solutions and Transform Your Career Are you ready to master one of the most in-demand and future-proof skills of the 21st century? Whether you're a beginner, student, working professional, or tech enthusiast—this comprehensive guide is your ultimate roadmap to becoming a data science expert. "Data Science: From Basics to Advanced" takes you on a complete journey through the world of data, starting from foundational concepts and evolving all the way to advanced machine learning, deep learning, and real-world deployment. □ What You'll Learn Inside: □ Statistics, Probability & Linear Algebra — The math behind the magic □ Python Programming — Clean and efficient data handling with NumPy and pandas □ Exploratory Data Analysis — Visualize, understand, and tell stories with data □ Machine Learning & Deep Learning — Build, train, and tune powerful models □ Natural Language Processing, Time Series, and Computer Vision □ Cloud Tools, Big Data, and MLOps — Deploy scalable solutions using AWS, GCP, and more □ Bias, Fairness & Data Ethics — Build responsible, human-centered AI □ Career Tools — Portfolio templates, interview prep, certifications, and roadmaps □ Who This Book Is For: Beginners looking for a step-by-step introduction to data science Professionals seeking to upskill or transition into AI/ML roles Students preparing for internships and job interviews Entrepreneurs and business leaders leveraging data-driven strategies □ Includes: □ Real-world projects and use cases □ Sample code and reusable templates □ Cheat sheets, glossary, and portfolio guidance □ Companion resources and learning roadmap If you've ever wanted to extract insight from raw data, build machine learning models, or launch a data science career, this is the book you've been waiting for. □ Your journey into data starts now. □ Get your copy of Data Science: From Basics to Advanced and turn information into impact.

**Beacon** Raymond A. Bordogna 2025-10-21 Many companies start AI projects, but few scale them successfully. Beacon gives CEOs, CIOs, and enterprise leaders the roadmap to move beyond experimentation and

embed AI across the organization. This actionable guide introduces the "Reimagine—Rearchitect—Rewire—Renew" framework to help organizations lead strategic AI transformation from the top down. Author Raymond A. Bordogna draws on global enterprise experience and trusted industry models to show how to: Translate AI vision into measurable business outcomes Architect resilient systems that support long-term innovation Overcome resistance and align teams around shared AI objectives Integrate ethics, governance, and performance into every AI decision Build adaptive capabilities to lead in an AI-native economy Beacon is not about algorithms—it's about leadership and transformation. With real-world case studies, leadership checklists, and proven frameworks, this book shows you how to build a business that learns, adapts, and leads with intelligence at every level. 2025 Foreword Indies Finalist in Business & Economics

**Essentials of Deep Learning and AI** Shashidhar Soppin 2021-11-25 Drives next generation path with latest design techniques and methods in the fields of AI and Deep Learning **KEY FEATURES** ● Extensive examples of Machine Learning and Deep Learning principles. ● Includes graphical demonstrations and visual tutorials for various libraries, configurations, and settings. ● Numerous use cases with the code snippets and examples are presented. **DESCRIPTION** 'Essentials of Deep Learning and AI' curates the essential knowledge of working on deep neural network techniques and advanced machine learning concepts. This book is for those who want to know more about how deep neural networks work and advanced machine learning principles including real-world examples. This book includes implemented code snippets and step-by-step instructions for how to use them. You'll be amazed at how SciKit-Learn, Keras, and TensorFlow are used in AI applications to speed up the learning process and produce superior results. With the help of detailed examples and code templates, you'll be running your scripts in no time. You will practice constructing models and optimise performance while working in an AI environment. Readers will be able to start writing their programmes with confidence and ease. Experts and newcomers alike will have access to advanced methodologies. For easier reading, concept explanations are presented straightforwardly, with all relevant facts included. **WHAT YOU WILL LEARN** ● Learn feature engineering using a variety of autoencoders, CNNs, and LSTMs. ● Get to explore Time Series, Computer Vision and NLP models with insightful examples. ● Dive deeper into Activation and Loss functions with various scenarios. ● Get the experience of Deep Learning and AI across IoT, Telecom, and Health Care. ● Build a strong foundation around AI, ML and Deep Learning principles and key concepts. **WHO THIS BOOK IS FOR** This book targets Machine Learning Engineers, Data Scientists, Data Engineers, Business Intelligence Analysts, and Software Developers who wish to gain a firm grasp on the fundamentals of Deep Learning and Artificial Intelligence. Readers should have a working knowledge of computer programming concepts. **TABLE OF CONTENTS** 1. Introduction 2. Supervised Machine Learning 3. System Analysis with Machine Learning/Un-Supervised Learning 4. Feature Engineering 5. Classification, Clustering, Association Rules, and Regression 6. Time Series Analysis 7. Data Cleanup, Characteristics and Feature Selection 8. Ensemble Model Development 9. Design with Deep Learning 10. Design with Multi Layered Perceptron (MLP) 11. Long Short Term Memory Networks 12. Autoencoders 13. Applications of Machine Learning and Deep Learning 14. Emerging and Future Technologies.

**Machine Learning and AI for Absolute Beginners** Oliver Theobald 2025-08-20 Explore AI and Machine Learning fundamentals, tools, and applications in this beginner-friendly guide. Learn to build models in Python and understand AI ethics. **Key Features** Covers AI fundamentals, Machine Learning, and Python model-building Provides a clear, step-by-step guide to learning AI techniques Explains ethical considerations and the future role of AI in society **Book Description** This book is an ideal starting point for anyone interested in Artificial Intelligence and Machine Learning. It begins with the foundational principles of AI, offering a deep dive into its history, building blocks, and the stages of development. Readers will explore key AI concepts and gradually transition to practical applications, starting with machine learning algorithms such as linear regression and k-nearest neighbors. Through step-by-step Python tutorials, the book helps readers build and implement models with hands-on experience. As the book progresses, readers will dive into advanced AI topics like deep learning, natural language processing (NLP), and generative AI. Topics such as recommender systems and computer vision demonstrate the real-world applications of AI technologies. Ethical considerations and privacy concerns are also addressed, providing insight into the societal impact of these technologies. By the end of the

book, readers will have a solid understanding of both the theory and practice of AI and Machine Learning. The final chapters provide resources for continued learning, ensuring that readers can continue to grow their AI expertise beyond the book. **What you will learn** Understand key AI and ML concepts and how they work together Build and apply machine learning models from scratch Use Python to implement AI techniques and improve model performance Explore essential AI tools and frameworks used in the industry Learn the importance of data and data preparation in AI development Grasp the ethical considerations and the future of AI in work **Who this book is for** This book is ideal for beginners with no prior knowledge of AI or Machine Learning. It is tailored to those who wish to dive into these topics but are not yet familiar with the terminology or techniques. There are no prerequisites, though basic programming knowledge can be helpful. The book caters to a wide audience, from students and hobbyists to professionals seeking to transition into AI roles. Readers should be enthusiastic about learning and exploring AI applications for the future.

**Deep Learning** John D. Kelleher 2019-09-10 An accessible introduction to the artificial intelligence technology that enables computer vision, speech recognition, machine translation, and driverless cars. Deep learning is an artificial intelligence technology that enables computer vision, speech recognition in mobile phones, machine translation, AI games, driverless cars, and other applications. When we use consumer products from Google, Microsoft, Facebook, Apple, or Baidu, we are often interacting with a deep learning system. In this volume in the MIT Press Essential Knowledge series, computer scientist John Kelleher offers an accessible and concise but comprehensive introduction to the fundamental technology at the heart of the artificial intelligence revolution. Kelleher explains that deep learning enables data-driven decisions by identifying and extracting patterns from large datasets; its ability to learn from complex data makes deep learning ideally suited to take advantage of the rapid growth in big data and computational power. Kelleher also explains some of the basic concepts in deep learning, presents a history of advances in the field, and discusses the current state of the art. He describes the most important deep learning architectures, including autoencoders, recurrent neural networks, and long short-term networks, as well as such recent developments as Generative Adversarial Networks and capsule networks. He also provides a comprehensive (and comprehensible) introduction to the two fundamental algorithms in deep learning: gradient descent and backpropagation. Finally, Kelleher considers the future of deep learning—major trends, possible developments, and significant challenges.

**AI Essentials Guide** William Hawkins 2024-11-07 This is a comprehensive exploration into the world of Artificial Intelligence, designed to bridge the gap between theoretical concepts and practical, real-world applications. This book unravels the mystique of AI, breaking down its components into understandable elements. From the early dawn of AI's inception to its current state of rapid evolution, we cover the essential building blocks necessary for leveraging AI in business, and personal development, and understanding its broader impacts on society. Through an engaging conversational format, readers are guided through the intricacies of AI, covering topics such as machine learning, AI governance, data security, and the ethical challenges facing AI today. This book is an invaluable resource for those looking to understand the fundamentals of AI, its practical applications, and its significant implications for the future. After reading this book, you will be able to integrate AI into your business strategies and learn the intricacies of AI advancements. **What You Will Learn:** Key concepts and definitions within AI, including types of AI, machine learning, and neural networks and how they are utilized in AI apps like M365 Copilot Practical applications of AI for personal and business growth, focusing on the pillars of using AI to evolve these fronts effectively and sustainably How AI is transforming businesses and what organizational shifts must be made to realize the value Navigating the challenges and ethical considerations in AI to ensure informed and responsible usage **Who This Book Is For:** Professionals looking to integrate AI into their business strategies or organizations.

**Artificial Intelligence: Mind Meets Machine - Learn AI in 50 Steps** Dr. Gurra Veera Raghavaiah 2026-01-28 "From Curiosity to Mastery: Your 50-Step Journey Through the AI Universe". Dive into Artificial Intelligence: Mind Meets Machine - Learn AI in 50 Steps, the ultimate roadmap turning beginners into AI masters. This 21st-century guide demystifies AI via 10 progressive phases: Foundations (concepts, Python), Math/ML Core (stats, algorithms), Hands-On DL (CNNs,

projects), Specialized Domains (NLP, RL, GANs), Production/Ethics, Real-World Apps, Pro Development (portfolios, Kaggle), Advanced Topics (transformers), and Lifelong Mastery (teaching others). Spiral learning + projects ensure deep proficiency in end-to-end AI, ethics, MLOps. For career switchers/executives—overcome tutorial chaos with deliberate, transformative steps. Mind meets machine: Create the future!

**Deep Learning By Example** Ahmed Menshawy 2018-02-27 Grasp the fundamental concepts of deep learning using Tensorflow in a hands-on manner Key Features Get a first-hand experience of the deep learning concepts and techniques with this easy-to-follow guide Train different types of neural networks using Tensorflow for real-world problems in language processing, computer vision, transfer learning, and more Designed for those who believe in the concept of 'learn by doing', this book is a perfect blend of theory and code examples Book Description Deep learning is a popular subset of machine learning, and it allows you to build complex models that are faster and give more accurate predictions. This book is your companion to take your first steps into the world of deep learning, with hands-on examples to boost your understanding of the topic. This book starts with a quick overview of the essential concepts of data science and machine learning which are required to get started with deep learning. It introduces you to Tensorflow, the most widely used machine learning library for training deep learning models. You will then work on your first deep learning problem by training a deep feed-forward neural network for digit classification, and move on to tackle other real-world problems in computer vision, language processing, sentiment analysis, and more. Advanced deep learning models such as generative adversarial networks and their applications are also covered in this book. By the end of this book, you will have a solid understanding of all the essential concepts in deep learning. With the help of the examples and code provided in this book, you will be equipped to train your own deep learning models with more confidence. What you will learn Understand the fundamentals of deep learning and how it is different from machine learning Get familiarized with Tensorflow, one of the most popular libraries for advanced machine learning Increase the predictive power of your model using feature engineering Understand the basics of deep learning by solving a digit classification problem of MNIST Demonstrate face generation based on the CelebA database, a promising application of generative models Apply deep learning to other domains like language modeling, sentiment analysis, and machine translation Who this book is for This book targets data scientists and machine learning developers who wish to get started with deep learning. If you know what deep learning is but are not quite sure of how to use it, this book will help you as well. An understanding of statistics and data science concepts is required. Some familiarity with Python programming will also be beneficial.

*Artificial Intelligence in Surgery: Understanding the Role of AI in Surgical Practice* Daniel A. Hashimoto 2021-03-08 Build a solid foundation in surgical AI with this engaging, comprehensive guide for AI novices Machine learning, neural networks, and computer vision in surgical education, practice, and research will soon be de rigueur. Written for surgeons without a background in math or computer science, *Artificial Intelligence in Surgery* provides everything you need to evaluate new technologies and make the right decisions about bringing AI into your practice. Comprehensive and easy to understand, this first-of-its-kind resource illustrates the use of AI in surgery through real-life examples. It covers the issues most relevant to your practice, including: Neural Networks and Deep Learning Natural Language Processing Computer Vision Surgical Education and Simulation Preoperative Risk Stratification Intraoperative Video Analysis OR Black Box and Tracking of Intraoperative Events Artificial Intelligence and Robotic Surgery Natural Language Processing for Clinical Documentation Leveraging Artificial Intelligence in the EMR Ethical Implications of Artificial Intelligence in Surgery Artificial Intelligence and Health Policy Assessing Strengths and Weaknesses of Artificial Intelligence Research Finally, the appendix includes a detailed glossary of terms and important learning resources and techniques—all of which helps you interpret claims made by studies or companies using AI.

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