
Deep Learning For Business With Python A Very Gentle Introduction To Business Analytics Using Deep Neural Networks

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Deep Learning in Business Analytics
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Applied Deep Learning with Pytorch MIT Press

Take a hands-on approach to understanding deep learning and build smart applications that can recognize images and interpret text Key Features Understand how to implement deep learning with TensorFlow and Keras Learn the fundamentals of computer vision and image recognition Study the architecture of different neural networks Book Description Are you fascinated by how deep learning powers intelligent applications such as self-driving cars, virtual assistants, facial recognition devices, and chatbots to process data and solve complex problems? Whether you are familiar with machine learning or are new to this domain, The Deep Learning Workshop will make it easy for you to understand deep learning with the help of interesting examples and exercises throughout. The book starts by highlighting the relationship between deep learning, machine learning, and artificial intelligence and helps you get comfortable with the TensorFlow 2.0 programming structure using hands-on exercises. You'll understand neural networks, the structure of a perceptron, and how to use TensorFlow to create and train models. The book will then let you explore the fundamentals of computer vision by performing image recognition exercises with convolutional neural networks (CNNs) using Keras. As you advance, you'll be able to make your model more powerful by implementing text embedding and sequencing the data using popular deep learning solutions. Finally, you'll get to grips with bidirectional recurrent neural networks (RNNs) and build generative adversarial networks (GANs) for image synthesis. By the end of this deep learning book, you'll have learned the skills essential for building deep learning models with TensorFlow and Keras. What you will learn Understand how deep learning, machine learning, and artificial intelligence are different Develop multilayer deep neural networks with TensorFlow Implement deep neural networks for multiclass classification using Keras Train CNN models for image recognition Handle sequence data and use it in conjunction with RNNs Build a GAN to generate high-quality synthesized images Who this book is for If you are interested in machine learning and want to create and train deep learning models using TensorFlow and Keras, this workshop is for you. A solid understanding of Python and its packages, along with basic machine learning concepts, will help you to learn the topics quickly. *Deep Learning in Business Analytics* Springer

Are you a business owner, and you want to take advantage of Artificial Intelligence to make more profit? Are you searching for new business opportunities, and you want to know how AI technologies can help you? Artificial Intelligence is the future, but it's also a great opportunity today. You can use

it to create incredible products with never seen before features. Probably you are already using AI technologies in your everyday routine, and you don't even know it! By the way, AI represents a significant opportunity if you want to grow your business or if you are searching for a new job, but it requires a solid background in terms of processes and technologies involved and, of course, you must fully understand how to implement AI in the business world. This book can assist you in understanding What is Artificial Intelligence What are the AI tools that you should be aware of How to link Artificial Intelligence with Big Data How Artificial Intelligence can help you in your marketing strategies Which niches can benefit more from AI Even if you have not a degree in computer science or math, even if you have never worked on an Artificial Intelligence project, with this book you can understand how to benefit from this set of technologies and unlock their extraordinary potential. If you want to start to do business with Artificial Intelligence, scroll up and click the buy now button!

[Artificial Intelligence and Machine Learning for Business](#) Samuel Hack

Most economists agree that AI is a general purpose technology (GPT) like the steam engine, electricity, and the computer. AI will drive innovation in all sectors of the economy for the foreseeable future. Practical AI for Business Leaders, Product Managers, and Entrepreneurs is a technical guidebook for the business leader or anyone responsible for leading AI-related initiatives in their organization. The book can also be used as a foundation to explore the ethical implications of AI. Authors Alfred Essa and Shirin Mojarad provide a gentle introduction to foundational topics in AI. Each topic is framed as a triad: concept, theory, and practice. The concept chapters develop the intuition, culminating in a practical case study. The theory chapters reveal the underlying technical machinery. The practice chapters provide code in Python to implement the models discussed in the case study. With this book, readers will learn: The technical foundations of machine learning and deep learning How to apply the core technical concepts to solve business problems The different methods used to evaluate AI models How to understand model development as a tradeoff between accuracy and generalization How to represent the computational aspects of AI using vectors and matrices How to express the models in Python by using machine learning libraries such as scikit-learn, statsmodels, and keras

Artificial Intelligence and Machine Learning for Business Createspace Independent Publishing Platform

According to a recent poll conducted by O'Reilly Media, most data scientists already know what AI technologies, such as deep learning, can do. Now they want to learn how to implement neural networks and deep learning to address their unique business objective. They're looking for business use cases, real-world examples, and tutorials and tips for overcoming challenges with these projects. And they're seeking a Cloud-based service so they can spin up a service in matter of minutes and only pay for what they use. With tools such as Deep Learning as a Service within IBM

Watson Studio, building and deploying deep learning models in the enterprise is getting easier. This practical report provides enterprise application developers with specific use cases and steps for implementation, data scientist Federico Castaneda provides readers with a foundational understanding of deep learning and demonstrates how companies are using it in their business today. You'll learn two approaches to implementing deep learning in your organization: build and train your own deep learning models, or leverage pre-trained models. Learn what deep learning can do in the enterprise Understand the general process of building and training neural networks in-house for deep learning projects Contrast building your own solution with using and deploying pre-built models Design deep learning models in the cloud with IBM Watson Studio and popular frameworks such as TensorFlow, Caffe, PyTorch and Keras.

Automated Machine Learning for Business Simon and Schuster

Learn How to Apply Artificial Intelligence in Business! Over the years, machines have attained intelligence capabilities that were only known to man before. Self-driving cars and virtual assistants like Siri and Alexa are some of the examples of artificial intelligence in action in daily life. For a business, artificial intelligence is important in increasing productivity, enhancing decision making and increasing profits. This book puts into perspective how artificial intelligence affects business. With 14 comprehensive chapters, this book is the most detailed guide you will find on the internet on artificial intelligence for business. Here is a rundown of what you learn: How to get started with AI in your business What benefits and impacts the use of AI will have in your business How you can build and incorporate an AI strategy in your business How machine learning and AI will enhance the competitiveness of your business The best uses for AI in your business The future of AI, especially for businesses FAQ Q: Who is this book suitable for? A: This book is for business executives and students of business that want to be future proof. It will take you through the concepts of machine learning, artificial intelligence and deep learning and how you can use them to impact your business. Q: At the end of this book, will I be able to implement AI in my business? A: Yes. This book provides a step-by-step method on how you can develop machine learning and artificial intelligence projects for your business. Everything is covered: from developing a strategy to operationalizing ML and AI projects. Grab your copy of this comprehensive guide to artificial intelligence for business and stand the test of time!

[The Deep Learning Workshop](#) Packt Publishing Ltd

TODAY ONLY 55% OFF for Bookstores! Are you interested in learning about the amazing capabilities of machine learning, but you're worried it will be just too complicated? Or are you a programmer looking for a solid introduction into this field? Your customers must have this guide to understand the hidden secrets of artificial intelligence! Machine learning is an incredible technology which we're only just beginning to understand. Those who break into this industry early will reap the rewards as this field grows more and more important to businesses the world over. And the good news is, it's not too late to start! This guide breaks down the fundamentals of machine learning in a way that anyone can understand. With reference to the different kinds of machine learning models, neural networks, and the way these models learn data, you'll find everything you need to know to get started with machine learning in a concise, easy-to-understand way. Here's what you'll discover inside: What is Artificial Intelligence Really, and Why is it So Powerful? Choosing the Right Kind of

Machine Learning Model for You An Introduction to Statistics Supervised and Unsupervised Learning The Power of Neural Networks Reinforcement Learning and Ensemble Modeling "Random Forests" and Decision Trees Must-Have Programming Tools And Much More! Whether you're already a programmer or if you're a complete beginner, now you can break into machine learning in no time! Covering all the basics from simple decision trees to the complex decision-making processes which mirror our own brains, Machine Learning for Beginners is your comprehensive introduction to this amazing field! Buy it NOW and let your customers become to addicted to this incredible book!

[The Deep Learning Revolution](#) CRC Press

Intelligent business analytics is an emerging technology that has become a mainstream market adopted broadly across industries, organizations, and geographic regions. Intelligent business analytics is a current focus for research and development across academia and industries and must be examined and considered thoroughly so businesses can apply the technology appropriately. The Handbook of Research on Foundations and Applications of Intelligent Business Analytics examines the technologies and applications of intelligent business analytics and discusses the foundations of intelligent analytics such as intelligent mining, intelligent statistical modeling, and machine learning. Covering topics such as augmented analytics and artificial intelligence systems, this major reference work is ideal for scholars, engineers, professors, practitioners, researchers, industry professionals, academicians, and students.

The Business of Deep Learning Simon and Schuster

Discover the potential applications, challenges, and opportunities of deep learning from a business perspective with technical examples. These applications include image recognition, segmentation and annotation, video processing and annotation, voice recognition, intelligent personal assistants, automated translation, and autonomous vehicles. An Introduction to Deep Learning Business Applications for Developers covers some common DL algorithms such as content-based recommendation algorithms and natural language processing. You'll explore examples, such as video prediction with fully convolutional neural networks (FCNN) and residual neural networks (ResNets). You will also see applications of DL for controlling robotics, exploring the DeepQ learning algorithm with Monte Carlo Tree search (used to beat humans in the game of Go), and modeling for financial risk assessment. There will also be mention of the powerful set of algorithms called Generative Adversarial Neural networks (GANs) that can be applied for image colorization, image completion, and style transfer. After reading this book you will have an overview of the exciting field of deep neural networks and an understanding of most of the major applications of deep learning. The book contains some coding examples, tricks, and insights on how to train deep learning models using the Keras framework. What You Will Learn Find out about deep learning and why it is so powerful Work with the major algorithms available to train deep learning models See the major breakthroughs in terms of applications of deep learning Run simple examples with a selection of deep learning libraries Discover the areas of impact of deep learning in business Who This Book Is For Data scientists, entrepreneurs, and business developers.

[Artificial Intelligence for Business](#) O'Reilly Media

Artificial Intelligence (AI) and Machine Learning are now mainstream business tools. They are being applied across many industries to increase profits, reduce costs, save lives and improve customer

experiences. Organizations which understand these tools and know how to use them are benefiting at the expense of their rivals. Artificial Intelligence and Machine Learning for Business cuts through the hype and technical jargon that is often associated with these subjects. It delivers a simple and concise introduction for managers and business people. The focus is very much on practical application and how to work with technical specialists (data scientists) to maximize the benefits of these technologies. This third edition has been substantially revised and updated. It contains several new chapters and covers a broader set of topics than before, but retains the no-nonsense style of the original.

Machine Learning Packt Publishing Ltd

Master Deep Learning & Leverage Business Analytics - the Easy Way! Deep Learning for Business With R takes you on a gentle, fun and unhurried journey to building your own deep neural network models for business use in R. Using plain language, it offers an intuitive, practical, non-mathematical, easy to follow guide to the most successful ideas, outstanding techniques and usable solutions available using R. **BUSINESS ANALYTICS FAST!** This book is an ideal introduction to deep learning for business analytics. It is designed to be accessible. It will teach you, in simple and easy-to-understand terms, how to take advantage of deep learning to enhance business outcomes. **NO EXPERIENCE REQUIRED** I'm assuming you never did like linear algebra, don't want to see things derived, dislike complicated computer code, and you're here because you want to see how to use deep neural networks for business problems explained in plain language, and try them out for yourself. **THIS BOOK IS FOR YOU IF YOU WANT:** Explanations rather than mathematical derivation Real world applications that make sense. Illustrations to deepen your understanding. Worked examples in R you can easily follow and immediately implement. Ideas you can actually use and try on your own data. **QUICK AND EASY:** Deep Learning is little more than using straight-forward steps to process data into actionable insight. And in *Deep Learning for Business with R*, author Dr. N.D Lewis will show you how that's done. It's easier than you think. Through a simple to follow process you will learn how to build deep neural network models for business problems in R. Once you have mastered the process, it will be easy for you to translate your knowledge into your own powerful business applications. **TAKE THE SHORTCUT:** R is easy to use, available on all major operating systems and free! Each chapter covers, step by step, a different aspect of deep neural networks. You get your hands dirty as you work through some challenging real world business issues. **YOU'LL LEARN HOW TO:** Unleash the power of Deep Neural Networks for classifying the popularity of online news stories.. Develop hands on solutions for assessing customer churn.. Design successful applications for modeling customer brand choice. Master techniques for efficient product demand forecasting. Deploy deep neural networks to predict credit card expenditure. Adopt winning solutions to forecast the value of automobiles. **ACCELERATE YOUR PROGRESS** If you want to accelerate your progress and act on what you have learned, this book is the place to get started. It reveals how deep neural networks work, and takes you under the hood with an easy to follow process showing you how to build them faster than you imagined possible using the powerful and free R programming language. Everything you need to get started is contained within this book. *Deep Learning for Business With R* is your very own hands on practical, tactical, easy to follow guide to mastery Buy this book today your next big breakthrough using deep neural networks is only a

page away!

Deep Learning for Business with Python IGI Global

Advanced Analytics and Deep Learning Models The book provides readers with an in-depth understanding of concepts and technologies related to the importance of analytics and deep learning in many useful real-world applications such as e-healthcare, transportation, agriculture, stock market, etc. Advanced analytics is a mixture of machine learning, artificial intelligence, graphs, text mining, data mining, semantic analysis. It is an approach to data analysis. Beyond the traditional business intelligence, it is a semi and autonomous analysis of data by using different techniques and tools. However, deep learning and data analysis both are high centers of data science. Almost all the private and public organizations collect heavy amounts of data, i.e., domain-specific data. Many small/large companies are exploring large amounts of data for existing and future technology. Deep learning is also exploring large amounts of unsupervised data making it beneficial and effective for big data. Deep learning can be used to deal with all kinds of problems and challenges that include collecting unlabeled and uncategorized raw data, extracting complex patterns from a large amount of data, retrieving fast information, tagging data, etc. This book contains 16 chapters on artificial intelligence, machine learning, deep learning, and their uses in many useful sectors like stock market prediction, a recommendation system for better service selection, e-healthcare, telemedicine, transportation. There are also chapters on innovations and future opportunities with fog computing/cloud computing and artificial intelligence. Audience Researchers in artificial intelligence, big data, computer science, and electronic engineering, as well as industry engineers in healthcare, telemedicine, transportation, and the financial sector. The book will also be a great source for software engineers and advanced students who are beginners in the field of advanced analytics in deep learning.

Artificial Intelligence and Machine Learning for Business Relativistic

If you're an executive, manager, or anyone interested in leveraging AI within your organization, this is your guide. You'll understand exactly what AI is, learn how to identify AI opportunities, and develop and execute a successful AI vision and strategy. Alex Castrounis, business consultant and former IndyCar engineer and race strategist, examines the value of AI and shows you how to develop an AI vision and strategy that benefits both people and business. AI is exciting, powerful, and game changing—but too many AI initiatives end in failure. With this book, you'll explore the risks, considerations, trade-offs, and constraints for pursuing an AI initiative. You'll learn how to create better human experiences and greater business success through winning AI solutions and human-centered products. Use the book's AIPB Framework to conduct end-to-end, goal-driven innovation and value creation with AI Define a goal-aligned AI vision and strategy for stakeholders, including businesses, customers, and users Leverage AI successfully by focusing on concepts such as scientific innovation and AI readiness and maturity Understand the importance of executive leadership for pursuing AI initiatives "A must read for business executives and managers interested in learning about AI and unlocking its benefits. Alex Castrounis has simplified complex topics so that anyone can begin to leverage AI within their organization." - Dan Park, GM & Director, Uber "Alex Castrounis has been at the forefront of helping organizations understand the promise of AI and leverage its benefits, while avoiding the many pitfalls that can derail success. In this essential book,

he shares his expertise with the rest of us." - Dean Wampler, Ph.D., VP, Fast Data Engineering at Lightbend

Deep Learning Applications, Volume 2 CRC Press

Are you excited by the possibilities of machine learning? Do you want to optimize your business using machine learning? Then read below. If you are an active user of statistics to examine trends in your business, then using machine learning is your next best step. It uses advanced predictive algorithms of different aspects of your business; and also of different trends in your industry; to help you make the best possible decision. If you are new to business or thinking about starting a new business, this will also help you lay the groundwork and get ahead of others who are at your same level. It is a fascinating read recommended by everyone; as it also looks at how machine learning and AI can impact society as a whole. Here's What's Included In this Text: What are Machine Learning and Artificial Intelligence? What is a Predictive Model? Using a Predictive Model to Make Decisions What are Decision Trees? How to Use Decision Trees How to Use Neural Networks How to Use Big Data for Business New Technologies in Machine Learning Ethical Use of Machine Learning for Business Scroll up and download now.

Introduction to Deep Learning Business Applications for Developers Springer

In today's rapidly advancing digital era, the application of machine learning in various business aspects has become a crucial key in driving innovation and success. "Combining Machine Learning and Business" is designed to provide deep insights into how the integration of machine learning and business strategy can bring about significant transformation. This book not only elaborates on concepts and theories but further takes the reader on an applied research journey that has been undertaken. The author of this book, Yusep Maulana, has spent months conducting in-depth research on the application of machine learning technology in business, with a particular focus on case studies in Switzerland and the Netherlands. Through hands-on experience and direct collaboration with business practitioners in both countries, Yusep has managed to gather valuable data and insights on how machine learning can be integrated into business processes to enhance efficiency, innovation, and competitive advantage. This book presents the results of that research in an accessible way to readers, whether they are academics, business practitioners, students, or anyone with an interest in the field of machine learning and its application in the business world. It is hoped that readers will gain a broader and more applied understanding of the potential and challenges in combining machine learning with business strategy.

Machine Learning for Business FT Press

Harness the power of deep learning to drive productivity and efficiency using this practical guide covering techniques and best practices for the entire deep learning life cycle Key Features Interpret your models' decision-making process, ensuring transparency and trust in your AI-powered solutions Gain hands-on experience in every step of the deep learning life cycle Explore case studies and solutions for deploying DL models while addressing scalability, data drift, and ethical considerations Purchase of the print or Kindle book includes a free PDF eBook Book Description Deep learning enables previously unattainable feats in automation, but extracting real-world business value from it is a daunting task. This book will teach you how to build complex deep learning models and gain intuition for structuring your data to accomplish your deep learning objectives. This deep learning

book explores every aspect of the deep learning life cycle, from planning and data preparation to model deployment and governance, using real-world scenarios that will take you through creating, deploying, and managing advanced solutions. You'll also learn how to work with image, audio, text, and video data using deep learning architectures, as well as optimize and evaluate your deep learning models objectively to address issues such as bias, fairness, adversarial attacks, and model transparency. As you progress, you'll harness the power of AI platforms to streamline the deep learning life cycle and leverage Python libraries and frameworks such as PyTorch, ONNX, Catalyst, MLFlow, Captum, Nvidia Triton, Prometheus, and Grafana to execute efficient deep learning architectures, optimize model performance, and streamline the deployment processes. You'll also discover the transformative potential of large language models (LLMs) for a wide array of applications. By the end of this book, you'll have mastered deep learning techniques to unlock its full potential for your endeavors. What you will learn Use neural architecture search (NAS) to automate the design of artificial neural networks (ANNs) Implement recurrent neural networks (RNNs), convolutional neural networks (CNNs), BERT, transformers, and more to build your model Deal with multi-modal data drift in a production environment Evaluate the quality and bias of your models Explore techniques to protect your model from adversarial attacks Get to grips with deploying a model with DataRobot AutoML Who this book is for This book is for deep learning practitioners, data scientists, and machine learning developers who want to explore deep learning architectures to solve complex business problems. Professionals in the broader deep learning and AI space will also benefit from the insights provided, applicable across a variety of business use cases. Working knowledge of Python programming and a basic understanding of deep learning techniques is needed to get started with this book.

Practical AI for Business Leaders, Product Managers, and Entrepreneurs Oxford University Press Learn modern-day technologies from modern-day technical giants DESCRIPTION The aim of this book is to help the readers understand the concept of artificial intelligence and deep learning methods and implement them into their businesses and organizations. The first two chapters describe the introduction of the artificial intelligence and deep learning methods. In the first chapter, the concept of human thinking process, starting from the biochemical responses within the structure of neurons to the problem-solving steps through computational thinking skills are discussed. All chapters after the first two should be considered as the study of different technological and Artificial Intelligence giants of current age. These chapters are placed in a way that each chapter could be considered a separate study of a separate company, which includes the achievements of intelligent services currently provided by the company, discussion on the business model of the company towards the use of the deep learning technologies, the advancement of the web services which are incorporated with intelligent capability introduced by company, the efforts of the company in contributing to the development of the artificial intelligence and deep learning research. KEY FEATURES Real-world success and failure stories of artificial intelligence explained Understand concepts of artificial intelligence and deep learning methods Learn how to use artificial intelligence and deep learning methods Know how to prepare dataset and implement models using industry leading Python packages You'll be able to apply and analyze the results produced by the models for prediction WHAT WILL YOU LEARN How to use the algorithms written in the Python programming

language to design models and perform predictions in general datasets Understand use cases in different industries related to the implementation of artificial intelligence and deep learning methods Learn the use of potential ideas in artificial intelligence and deep learning methods to improve the operational processes or new products and how services can be produced based on the methods WHO THIS BOOK IS FORÉ This book is targeted to business and organization leaders, technology enthusiasts, professionals, and managers who seek knowledge of artificial intelligence and deep learning methods. Table of Contents Artificial Intelligence and Deep Learning Data Science for Business Analysis Decision Making Intelligent Computing Strategies By GoogleÉ Cognitive Learning Services in IBM Watson Advancement web services by BaiduÉ Improved Social Business by Facebook Personalized Intelligent Computing by Apple Cloud Computing Intelligent by Microsoft

Artificial Intelligence for Business Smart Creative Publishing

The next big area within the information and communication technology field is Artificial Intelligence (AI). The industry is moving to automate networks, cloud-based systems (e.g., Salesforce), databases (e.g., Oracle), AWS machine learning (e.g., Amazon Lex), and creating infrastructure that has the ability to adapt in real-time to changes and learn what to anticipate in the future. It is an area of technology that is coming faster and penetrating more areas of business than any other in our history. AI will be used from the C-suite to the distribution warehouse floor. Replete with case studies, this book provides a working knowledge of AI's current and future capabilities and the impact it will have on every business. It covers everything from healthcare to warehousing, banking, finance and education. It is essential reading for anyone involved in industry.

Handbook of Research on Foundations and Applications of Intelligent Business Analytics Innovation Are you prepared for the inevitable AI revolution?How can you use it in your current role as a business leader? Artificial intelligence has become the center of strategic decision making for organizations. It disrupts the way industries function - from sales and marketing to finance and HR, companies are betting on AI to give them a competitive advantage. AI for Business Leaders is a thoughtfully crafted guide book designed specifically for business people that requires no programming. Through this book, you will learn about the current state of AI, how it is disrupting businesses worldwide and in various areas, how it can impact your current role and what you can do about it. This book also delves into the different building blocks of AI and why it is necessary to have a high-level overview of these topics in today's data-driven world. We will also offer you several practical case studies at the end of the course that will test your understanding and add context to everything you have studied. By the time you have completed the book, you will be ready to apply your newly acquired knowledge to your current organization. You can make informed strategic decisions for yourself and your company. Who this course is for: CXOs, Business Managers, MBA students Entrepreneurs Any one interested in understanding and applying these technologies for business use

Applying Deep Learning in Business BPB Publications

Summary Imagine predicting which customers are thinking about switching to a competitor or flagging potential process failures before they happen Think about the benefits of forecasting tedious business processes and back-office tasks Envision quickly gauging customer sentiment from social media content (even large volumes of it). Consider the competitive advantage of making

decisions when you know the most likely future events Machine learning can deliver these and other advantages to your business, and it's never been easier to get started! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Machine learning can deliver huge benefits for everyday business tasks. With some guidance, you can get those big wins yourself without complex math or highly paid consultants! If you can crunch numbers in Excel, you can use modern ML services to efficiently direct marketing dollars, identify and keep your best customers, and optimize back office processes. This book shows you how. About the book Machine Learning for Business teaches business-oriented machine learning techniques you can do yourself. Concentrating on practical topics like customer retention, forecasting, and back office processes, you'll work through six projects that help you form an ML-for-business mindset. To guarantee your success, you'll use the Amazon SageMaker ML service, which makes it a snap to turn your questions into results. What's inside Identifying tasks suited to machine learning Automating back office processes Using open source and cloud-based tools Relevant case studies About the reader For technically inclined business professionals or business application developers. About the author Doug Hudgeon and Richard Nichol specialize in maximizing the value of business data through AI and machine learning for companies of any size. Table of Contents: PART 1 MACHINE LEARNING FOR BUSINESS 1 | How machine learning applies to your business PART 2 SIX SCENARIOS: MACHINE LEARNING FOR BUSINESS 2 | Should you send a purchase order to a technical approver? 3 | Should you call a customer because they are at risk of churning? 4 | Should an incident be escalated to your support team? 5 | Should you question an invoice sent by a supplier? 6 | Forecasting your company's monthly power usage 7 | Improving your company's monthly power usage forecast PART 3 MOVING MACHINE LEARNING INTO PRODUCTION 8 | Serving predictions over the web 9 | Case studies

Artificial Intelligence and Machine Learning in Business Management Walter de Gruyter GmbH & Co KG

"The authors' clear visual style provides a comprehensive look at what's currently possible with artificial neural networks as well as a glimpse of the magic that's to come." - Tim Urban, author of Wait But Why Fully Practical, Insightful Guide to Modern Deep Learning Deep learning is transforming software, facilitating powerful new artificial intelligence capabilities, and driving unprecedented algorithm performance. Deep Learning Illustrated is uniquely intuitive and offers a complete introduction to the discipline's techniques. Packed with full-color figures and easy-to-follow code, it sweeps away the complexity of building deep learning models, making the subject approachable and fun to learn. World-class instructor and practitioner Jon Krohn-with visionary content from Grant Beyleveld and beautiful illustrations by Aglaé Bassens-presents straightforward analogies to explain what deep learning is, why it has become so popular, and how it relates to other machine learning approaches. Krohn has created a practical reference and tutorial for developers, data scientists, researchers, analysts, and students who want to start applying it. He illuminates theory with hands-on Python code in accompanying Jupyter notebooks. To help you progress quickly, he focuses on the versatile deep learning library Keras to nimbly construct efficient TensorFlow models; PyTorch, the leading alternative library, is also covered. You'll gain a pragmatic understanding of all major deep learning approaches and their uses in applications ranging from

machine vision and natural language processing to image generation and game-playing algorithms. Discover what makes deep learning systems unique, and the implications for practitioners Explore new tools that make deep learning models easier to build, use, and improve Master essential theory: artificial neurons, training, optimization, convolutional nets, recurrent nets, generative adversarial

networks (GANs), deep reinforcement learning, and more Walk through building interactive deep learning applications, and move forward with your own artificial intelligence projects Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.