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Deep Learning for Business with Python
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Artificial Intelligence and Machine Learning in Business Management
The focus of this book is to introduce artificial intelligence (AI) and machine learning (ML) technologies into the context of business management. The book gives insights into the implementation and impact of AI and ML to business leaders, managers, technology

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this book provides a single comprehensive reference resource for undergraduate, graduate, business professionals, and related disciplines. Artificial Intelligence and Machine Learning for Business John Wiley & Sons
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guidebook is going to take a closer look at how Artificial Intelligence and Machine Learning are able to work for businesses, as well as how you can use some of the tips and techniques that come with these processes for your own needs. Some of the topics that we will explore when we go through this book will include: The basics of Artificial Intelligence (AI) and Machine Learning (ML); How to be prepared for the challenges to face when using Artificial Intelligence and Machine Learning; How ML can enhance the competitiveness of any business; A step-by-step method to develop AI and ML Projects and to build an enterprise's strategy; If you want to find out

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Artificial Intelligence for Business CRC

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

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Machine Learning in Business Smart

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Leverage Deep Learning for Business Analysis - with Python!
Deep Learning for Business With Python takes you on a gentle, fun and unhurried journey to building

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using Python. NO EXPERIENCE?: 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 you can easily follow and immediately implement. Ideas you can actually use and try on your own data. TAKE THE SHORTCUT: Through a simple to

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Deep Learning for Business with R
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If you have ever wondered what drives the many tools we use every day, then keep reading. The Fourth Industrial Revolution is led by Artificial

Intelligence technology and setting the humankind for a global social transformation. The powerful applications of AI have already transformed our daily lives. Tools such as virtual personal and home assistants (like Siri in Apple Pods and Alexa in Amazon Echo) have become everyday usage products. Artificial Intelligence and Machine Learning are closely related. They have become an important part of scientific study. Not only does it involve the study of statistical models and algorithms, but also the systems used for task performance. Our aim with this book is to provide you a 360 view of the fundamentals and importance of Machine Learning

Technology for the beginners' level. You Will Learn: The Fundamentals and Concepts of Artificial Intelligence in 2020 The Technology behind AI, and its Rapid growth and Evolution The Advantages and Disadvantages of Artificial Intelligence How AI Helps Business The Importance of Deep Learning Today How the Fields of Data Science and Its Many Applications Helps Your Business Computer Science and Its Applications in Real World Basic Terminology Used in Artificial Intelligence As we cover the basics of Machine Learning and Artificial Intelligence, you will be glad to know that it can be understood and processed on the beginners' level. Even

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Intelligence technology and setting the humankind for a global social transformation. The powerful applications of AI have already transformed our daily lives. Tools such as virtual personal and home assistants (like Siri in Apple Pods and Alexa in Amazon Echo) have become everyday usage products. Moreover, our digital lives have inundated organizations with astronomical volumes of data with hidden treasures of valuable insights. This information can be uncovered with the use of big data analytics and applied in combination with the Artificial Intelligence technology to increase your business performance efficiency. Learning to incorporate

the Artificial Intelligence applications, Machine Learning, and Big Data Analytics in line with your company's domain can only give your business positive results. Our aim with this book is to provide you a 360 view of the fundamentals and importance of Artificial Intelligence Technology. You Will Learn: The Fundamentals of Artificial Intelligence and Machine Learning Applications, and Why are They so Important in the World Today. Gain an In-depth Understanding of 12 of the Most Popular Artificial Intelligence Tools in the Market, in an Easy to Understand and Colloquial Language. The Science of Big Data and How Companies are

Increasingly Employing Good Analytical Tools to Makes Sense of an Estimated 1.7 MB of Data that will be Generated per Second per Person by 2020. What Different Types of Machine Learning Algorithms are and How They Work to Make Machines Able to Learn and Train themselves with Repeated Use. Even if you are a beginner, you will be armed to make sound personal and professional technological choices. Would You Like to Know More? Download Now to get access to Artificial Intelligence power. [Machine Learning for Beginners](#) CRC Press Deep Learning with Structured Data teaches you powerful data analysis techniques for tabular

data and relational databases. Summary Deep learning offers the potential to identify complex patterns and relationships hidden in data of all sorts. Deep Learning with Structured Data shows you how to apply powerful deep learning analysis techniques to the kind of structured, tabular data you'll find in the relational databases that real-world businesses depend on. Filled with practical, relevant applications, this book teaches you how deep learning can augment your existing machine learning and business intelligence systems. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Here's a dirty secret:

Half of the time in most data science projects is spent cleaning and preparing data. But there's a better way: Deep learning techniques optimized for tabular data and relational databases deliver insights and analysis without requiring intense feature engineering. Learn the skills to unlock deep learning performance with much less data filtering, validating, and scrubbing. About the book Deep Learning with Structured Data teaches you powerful data analysis techniques for tabular data and relational databases. Get started using a dataset based on the Toronto transit system. As you work through the book, you'll learn how easy it

is to set up tabular data for deep learning, while solving crucial production concerns like deployment and performance monitoring. What's inside When and where to use deep learning The architecture of a Keras deep learning model Training, deploying, and maintaining models Measuring performance About the reader For readers with intermediate Python and machine learning skills. About the author Mark Ryan is a Data Science Manager at Intact Insurance. He holds a Master's degree in Computer Science from the University of Toronto. Table of Contents 1 Why deep learning with structured data? 2 Introduction to the example problem and

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Business Forecasting will also earn a place in the libraries of other executives and managers who seek a one-stop resource to help them critically assess and improve their own organization's forecasting efforts.

Deep Learning Illustrated

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As technology continues to become more sophisticated, a computer's ability to understand, interpret, and manipulate natural language is also accelerating. Persistent research in the field of natural language processing enables an understanding of the

world around us, in addition to opportunities for manmade computing to mirror natural language processes that have existed for centuries. *Natural Language Processing: Concepts, Methodologies, Tools, and Applications* is a vital reference source on the latest concepts, processes, and techniques for communication between computers and humans. Highlighting a range of topics such as machine learning, computational linguistics, and semantic analysis, this multi-volume book is ideally designed for computer engineers, computer and software developers, IT professionals, academicians,

researchers, and upper-level students seeking current research on the latest trends in the field of natural language processing. *Artificial Intelligence and Machine Learning for Business* John Wiley & Sons 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. *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.

Ubiquitous Machine Learning and Its Applications IGI

Global

Take a deep dive into deep learning Deep learning provides the means for discerning patterns in the data that drive online business and social media outlets. Deep Learning for Dummies gives you the information you need to take the mystery out of the topic—and all of the underlying technologies associated with it. In no time, you'll make sense of those increasingly confusing algorithms, and find a simple and safe

environment to experiment with deep learning. The book develops a sense of precisely what deep learning can do at a high level and then provides examples of the major deep learning application types. Includes sample code Provides real-world examples within the approachable text Offers hands-on activities to make learning easier Shows you how to use Deep Learning more effectively with the right tools This book is perfect for those who want to better understand the basis of the underlying technologies that we use each and every day.

Data Science for Business 2019 (2 BOOKS IN 1) Apress
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revolution is changing the way businesses operate and the skills required by managers. In creating the third edition, John Hull has continued to improve his material and added many new examples. The book explains the most popular machine learning algorithms clearly and succinctly; provides many examples of applications of machine learning in business; provides the knowledge managers need to work productively with data science professionals; has an accompanying website with data, worksheets, and Python code"--Back of cover.

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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.

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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

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Key Features Your one-stop solution to get started with the essentials of deep learning and neural network modeling Train different kinds of neural networks to tackle various problems in Natural Language Processing, computer vision, speech recognition, and more Covers popular Python libraries such as Tensorflow, Keras, and more, along with tips on training, deploying and optimizing your deep learning models in the best possible manner Book Description Deep Learning a trending topic in the field of Artificial Intelligence today and can be considered to be an advanced form of machine learning, which is quite tricky to

master. This book will help you take your first steps in training efficient deep learning models and applying them in various practical scenarios. You will model, train, and deploy different kinds of neural networks such as Convolutional Neural Network, Recurrent Neural Network, and will see some of their applications in real-world domains including computer vision, natural language processing, speech recognition, and so on. You will build practical projects such as chatbots, implement reinforcement learning to build smart games, and develop expert systems for image captioning and processing. Popular Python library such as

TensorFlow is used in this book to build the models. This book also covers solutions for different problems you might come across while training models, such as noisy datasets, small datasets, and more. This book does not assume any prior knowledge of deep learning. By the end of this book, you will have a firm understanding of the basics of deep learning and neural network modeling, along with their practical applications. What you will learn Get to grips with the core concepts of deep learning and neural networks Set up deep learning library such as TensorFlow Fine-tune your deep learning models for NLP and Computer Vision applications Unify different information

sources, such as images, text, and speech through deep learning. Optimize and fine-tune your deep learning models for better performance. Train a deep reinforcement learning model that plays a game better than humans. Learn how to make your models get the best out of your GPU or CPU. Who this book is for: Aspiring data scientists and machine learning experts who have limited or no exposure to deep learning will find this book to be very useful. If you are looking for a resource that gets you up and running with the fundamentals of deep learning and neural networks, this book is for you. As the models in the book are trained using the popular

Python-based libraries such as Tensorflow and Keras, it would be useful to have sound programming knowledge of Python. *Applying Deep Learning in Business* Independently Published 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 Castanedo 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. *Machine Learning for Business Smart Creative Publishing* Are you a new business owner? Or an entrepreneur looking to catch up to the big companies in your industrial sector? If you want to understand and master the

fundamentals and importance of data science technologies to kick start your business or take it to the next level, then keep reading. Thanks to the smart and savvy customer of today, the competition to gain new customers while retaining the existing customers is fierce. As a result, companies are increasingly relying upon cutting edge technologies such as big data analytics, data mining technology, machine learning, and artificial intelligence technology to gain an edge over the competition. Today, machine learning and artificial intelligence have given rise to sophisticated machines that can study human behavior and activity to identify underlying human behavioral

patterns and precisely predict what products and services consumers are interested in. Businesses with an eye on the future are gradually turning into technology companies under the façade of their intended business model. It is getting increasingly challenging for traditional businesses to retain their customers without adopting one or more of the cutting-edge technology explained in this book. Those entrepreneurs and business executives who have a sound understanding of the current challenges and status of their business will be primed to make informed decisions to meet the challenges head-on and improve their bottom line.

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