

Sentiment Analysis And Deep Learning A Survey

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Introduction to Deep

Learning and Neural Networks with PythonTM Innovations in Machine and Deep Learning Python Machine Learning Neural Networks and Deep Learning Deep Learning for Beginners Hands-On Python Deep Learning for the Web Essentials of Deep Learning and AI Hands-On Transfer Learning with Python Trends in Deep Learning Methodologies Deep Learning Fundamentals and Methods of Machine and Deep Learning Siddhartha Bhattacharyya Christopher M. Bishop Management Association, Information Resources Yuxi (Hayden) Liu Nitin Liladhar Rane Ahmed Menshawy Charu C. Aggarwal Micheal Lanham Mahrishi, Mehul Ahmed Fawzy Gad Gilberto Rivera Sebastian Raschka Pat Nakamoto Dr. Pablo Rivas Anubhav Singh Shashidhar Soppin Dipanjan Sarkar Vincenzo Piuri Manel Martinez-Ramon Pradeep Singh

this book focuses on the fundamentals of deep learning along with reporting on the current state of art research on deep learning in addition it provides an insight of deep neural networks in action with illustrative coding examples deep learning is a new area of machine learning research which has been introduced with the objective of moving ml closer to one of its original goals i e artificial intelligence deep learning was developed as an ml approach to deal with complex input output mappings while traditional methods successfully solve problems where final value is a simple function of input data deep learning techniques are able to capture composite relations between non immediately related fields for example between air pressure recordings and english words millions of pixels and textual description brand related news and future stock prices and almost all real world problems deep learning is a class of nature inspired machine learning algorithms that uses a cascade of multiple layers of nonlinear processing units for feature extraction and transformation each successive layer uses the output from the previous layer as input the learning may be supervised e g classification and or unsupervised e g pattern analysis manners these algorithms learn multiple levels of representations that correspond to different levels of abstraction by resorting to some form of

gradient descent for training via backpropagation layers that have been used in deep learning include hidden layers of an artificial neural network and sets of propositional formulas they may also include latent variables organized layer wise in deep generative models such as the nodes in deep belief networks and deep boltzmann machines deep learning is part of state of the art systems in various disciplines particularly computer vision automatic speech recognition asr and human action recognition

this book offers a comprehensive introduction to the central ideas that underpin deep learning it is intended both for newcomers to machine learning and for those already experienced in the field covering key concepts relating to contemporary architectures and techniques this essential book equips readers with a robust foundation for potential future specialization the field of deep learning is undergoing rapid evolution and therefore this book focusses on ideas that are likely to endure the test of time the book is organized into numerous bite sized chapters each exploring a distinct topic and the narrative follows a linear progression with each chapter building upon content from its predecessors this structure is well suited to teaching a two semester undergraduate or postgraduate machine learning course while remaining equally relevant to those engaged in active research or in self study a full understanding of machine learning requires some mathematical background and so the book includes a self contained introduction to probability theory however the focus of the book is on conveying a clear understanding of ideas with emphasis on the real world practical value of techniques rather than on abstract theory complex concepts are therefore presented from multiple complementary perspectives including textual descriptions diagrams mathematical formulae and pseudo code

chris bishop is a technical fellow at microsoft and is the director of microsoft research ai4science he is a fellow of darwin college cambridge a fellow of the royal academy of engineering and a fellow of the royal society

hugh bishop is an applied scientist at wayve a deep learning autonomous driving company in

london where he designs and trains deep neural networks he completed his mphil in machine learning and machine intelligence at cambridge university chris bishop wrote a terrific textbook on neural networks in 1995 and has a deep knowledge of the field and its core ideas his many years of experience in explaining neural networks have made him extremely skillful at presenting complicated ideas in the simplest possible way and it is a delight to see these skills applied to the revolutionary new developments in the field geoffrey hinton with the recent explosion of deep learning and ai as a research topic and the quickly growing importance of ai applications a modern textbook on the topic was badly needed the new bishop masterfully fills the gap covering algorithms for supervised and unsupervised learning modern deep learning architecture families as well as how to apply all of this to various application areas yann lecun this excellent and very educational book will bring the reader up to date with the main concepts and advances in deep learning with a solid anchoring in probability these concepts are powering current industrial ai systems and are likely to form the basis of further advances towards artificial general intelligence yoshua bengio

due to the growing use of web applications and communication devices the use of data has increased throughout various industries it is necessary to develop new techniques for managing data in order to ensure adequate usage deep learning a subset of artificial intelligence and machine learning has been recognized in various real world applications such as computer vision image processing and pattern recognition the deep learning approach has opened new opportunities that can make such real life applications and tasks easier and more efficient deep learning and neural networks concepts methodologies tools and applications is a vital reference source that trends in data analytics and potential technologies that will facilitate insight in various domains of science industry business and consumer applications it also explores the latest concepts algorithms and techniques of deep learning and data mining and analysis highlighting a range of topics such

as natural language processing predictive analytics and deep neural networks this multi volume book is ideally designed for computer engineers software developers it professionals academicians researchers and upper level students seeking current research on the latest trends in the field of deep learning

concepts tools and techniques to explore deep learning architectures and methodologies key features explore advanced deep learning architectures using various datasets and frameworks implement deep architectures for neural network models such as cnn rnn gan and many more discover design patterns and different challenges for various deep learning architectures book description deep learning architectures are composed of multilevel nonlinear operations that represent high level abstractions this allows you to learn useful feature representations from the data this book will help you learn and implement deep learning architectures to resolve various deep learning research problems hands on deep learning architectures with python explains the essential learning algorithms used for deep and shallow architectures packed with practical implementations and ideas to help you build efficient artificial intelligence systems ai this book will help you learn how neural networks play a major role in building deep architectures you will understand various deep learning architectures such as alexnet vgg net googlenet with easy to follow code and diagrams in addition to this the book will also guide you in building and training various deep architectures such as the boltzmann mechanism autoencoders convolutional neural networks cnns recurrent neural networks rnns natural language processing nlp gan and more all with practical implementations by the end of this book you will be able to construct deep models using popular frameworks and datasets with the required design patterns for each architecture you will be ready to explore the potential of deep architectures in today s world what you will learn implement cnns rnns and other commonly used architectures with python explore architectures such as vggnet alexnet and googlenet build deep learning architectures for ai applications such as face and image

recognition fraud detection and many more understand the architectures and applications of boltzmann machines and autoencoders with concrete examples master artificial intelligence and neural network concepts and apply them to your architecture understand deep learning architectures for mobile and embedded systems who this book is for if you re a data scientist machine learning developer engineer or deep learning practitioner or are curious about ai and want to upgrade your knowledge of various deep learning architectures this book will appeal to you you are expected to have some knowledge of statistics and machine learning algorithms to get the best out of this book

this book provides an extensive overview of recent advances in machine learning ml and deep learning dl it starts with a comprehensive introduction to the latest architectural and design practices with an overview of basic techniques and optimization algorithms and methodologies that are fundamental to modern ml dl development followed by the tools and frameworks that are driving innovation in ml dl the presentation then points to the central position of ml and dl in developing generative ai like chatgpt then look at different industrial applications such as explaining the real world impacts of each this includes challenges around corroborate artificial intelligence ai and trustworthy ai and so on finally the book presents a futuristic vision on the potentials and implications of future ml and dl architectures making it an ideal guide for researchers practitioners and industry professionals this book will be a significant resource for comprehending present advancements addressing encounter challenges and traversing the ml and dl landscape in future making it an indispensable reference for anyone interested in applying these technologies across sectors

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

this book covers both classical and modern models in deep learning the primary focus is on the theory and algorithms of deep learning the theory and algorithms of neural networks are particularly important for understanding important concepts so that one can understand the important design concepts of neural architectures in different applications why do neural networks work when do they work better than off the shelf machine learning models when is depth useful why is training neural networks so hard what are the pitfalls the book is also rich in discussing different applications in order to give the practitioner a flavor of how neural architectures are designed for different types of problems applications associated with many different areas like recommender systems machine translation image captioning image classification reinforcement learning based gaming and text analytics are covered the chapters of this book span three categories the basics of neural networks many traditional machine learning models can be understood as special cases of neural networks an emphasis is placed in the first two chapters on understanding the relationship between traditional machine learning and neural networks support vector machines linear logistic regression singular value decomposition matrix factorization and recommender systems are shown to be special cases of neural networks these methods are studied together with recent feature engineering methods like word2vec fundamentals of neural networks a detailed discussion of training and regularization is provided in chapters 3 and 4 chapters 5 and 6 present radial basis function rbf networks and restricted boltzmann machines advanced topics in neural networks chapters 7 and 8 discuss recurrent neural networks and convolutional neural networks several advanced topics like deep reinforcement learning neural turing machines kohonen self organizing maps and generative adversarial networks are introduced in chapters 9 and 10 the book is written

for graduate students researchers and practitioners numerous exercises are available along with a solution manual to aid in classroom teaching where possible an application centric view is highlighted in order to provide an understanding of the practical uses of each class of techniques

understand the core concepts of deep learning and deep reinforcement learning by applying them to develop games key features apply the power of deep learning to complex reasoning tasks by building a game ai exploit the most recent developments in machine learning and ai for building smart games implement deep learning models and neural networks with python book description the number of applications of deep learning and neural networks has multiplied in the last couple of years neural nets has enabled significant breakthroughs in everything from computer vision voice generation voice recognition and self driving cars game development is also a key area where these techniques are being applied this book will give an in depth view of the potential of deep learning and neural networks in game development we will take a look at the foundations of multi layer perceptron s to using convolutional and recurrent networks in applications from gans that create music or textures to self driving cars and chatbots then we introduce deep reinforcement learning through the multi armed bandit problem and other openai gym environments as we progress through the book we will gain insights about drl techniques such as motivated reinforcement learning with curiosity and curriculum learning we also take a closer look at deep reinforcement learning and in particular the unity ml agents toolkit by the end of the book we will look at how to apply drl and the ml agents toolkit to enhance test and automate your games or simulations finally we will cover your possible next steps and possible areas for future learning what you will learn learn the foundations of neural networks and deep learning use advanced neural network architectures in applications to create music textures self driving cars and chatbots understand the basics of reinforcement and drl and how to apply it to solve a variety of problems working with unity ml agents toolkit

and how to install setup and run the kit understand core concepts of drl and the differences between discrete and continuous action environments use several advanced forms of learning in various scenarios from developing agents to testing games who this book is for this books is for game developers who wish to create highly interactive games by leveraging the power of machine and deep learning no prior knowledge of machine learning deep learning or neural networks is required this book will teach those concepts from scratch a good understanding of python is required

artificial intelligence and its various components are rapidly engulfing almost every professional industry specific features of ai that have proven to be vital solutions to numerous real world issues are machine learning and deep learning these intelligent agents unlock higher levels of performance and efficiency creating a wide span of industrial applications however there is a lack of research on the specific uses of machine deep learning in the professional realm machine learning and deep learning in real time applications provides emerging research exploring the theoretical and practical aspects of machine learning and deep learning and their implementations as well as their ability to solve real world problems within several professional disciplines including healthcare business and computer science featuring coverage on a broad range of topics such as image processing medical improvements and smart grids this book is ideally designed for researchers academicians scientists industry experts scholars it professionals engineers and students seeking current research on the multifaceted uses and implementations of machine learning and deep learning across the globe

introduction to deep learning and neural networks with pythontm a practical guide is an intensive step by step guide for neuroscientists to fully understand practice and build neural networks providing math and pythontm

code examples to clarify neural network calculations by book s end readers will fully understand how neural networks work starting from the simplest model $y = x$ and building from scratch details and explanations are provided on how a generic gradient descent algorithm works based on mathematical and pythontm examples teaching you how to use the gradient descent algorithm to manually perform all calculations in both the forward and backward passes of training a neural network examines the practical side of deep learning and neural networks provides a problem based approach to building artificial neural networks using real data describes pythontm functions and features for neuroscientists uses a careful tutorial approach to describe implementation of neural networks in pythontm features math and code examples via companion website with helpful instructions for easy implementation

in recent years significant progress has been made in achieving artificial intelligence ai with an impact on students managers scientists health personnel technical roles investors teachers and leaders this book presents numerous successful applications of ai in various contexts the innovative implications covered fall under the general field of machine learning ml including deep learning decision making forecasting pattern recognition information retrieval and interpretable ai decision makers and entrepreneurs will find numerous successful applications in health care sustainability risk management human activity recognition logistics and industry 4 0 this book is an essential resource for anyone interested in challenges opportunities and the latest developments and real world applications of ml whether you are a student researcher practitioner or simply curious about ai this book provides valuable insights and inspiration for your work and learning

applied machine learning with a solid foundation in theory revised and expanded for tensorflow 2 gans and reinforcement learning purchase of the print or kindle book includes a free ebook in the pdf format key features

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machine learning knowledge this is an essential resource written for developers and data scientists who want to create practical machine learning and deep learning code this book is ideal for anyone who wants to teach computers how to learn from data

ready to crank up a neural network to get your self driving car pick up the kids from school want to add deep learning to your linkedin profile well hold on there before you embark on your epic journey into the world of deep learning there is basic theory to march through first take a step by step journey through the basics of neural networks and deep learning made so simple that even your granny could understand it what you will gain from this book a deep understanding of how a neural network and deep learning work a basics comprehension on how to build a deep neural network from scratch who this book is for beginners who want to approach the topic but are too afraid of complex math to start what s inside a brief introduction to machine learning two main types of machine learning algorithms a practical example of unsupervised learning what are neural networks mcculloch pitts s neuron types of activation function types of network architectures learning processes advantages and disadvantages let us give a memory to our neural network the example of book writing software deep learning the ability of learning to learn how does deep learning work main architectures and algorithms main types of dnn available frameworks and libraries convolutional neural networks tunnel vision convolution the right architecture for a neural network test your neural network a general overview of deep learning what are the limits of deep learning deep learning the basics layers learning paradigms training validation main architectures and algorithms models for deep learning probabilistic graphic models restricted boltzmann machines deep belief networks available frameworks and libraries tensorflow hit download now

implement supervised unsupervised and generative deep learning dl models using keras and dopamine with tensorflow key features understand the fundamental machine learning concepts useful in deep learning learn the underlying mathematical concepts as you implement deep learning models from scratch explore easy to understand examples and use cases that will help you build a solid foundation in dl book description with information on the web exponentially increasing it has become more difficult than ever to navigate through everything to find reliable content that will help you get started with deep learning this book is designed to help you if you re a beginner looking to work on deep learning and build deep learning models from scratch and you already have the basic mathematical and programming knowledge required to get started the book begins with a basic overview of machine learning guiding you through setting up popular python frameworks you will also understand how to prepare data by cleaning and preprocessing it for deep learning and gradually go on to explore neural networks a dedicated section will give you insights into the working of neural networks by helping you get hands on with training single and multiple layers of neurons later you will cover popular neural network architectures such as cnns rnns aes vaes and gans with the help of simple examples and learn how to build models from scratch at the end of each chapter you will find a question and answer section to help you test what you ve learned through the course of the book by the end of this book you ll be well versed with deep learning concepts and have the knowledge you need to use specific algorithms with various tools for different tasks what you will learn implement recurrent neural networks rnns and long short term memory lstm for image classification and natural language processing task explore the role of convolutional neural networks cnns in computer vision and signal processing discover the ethical implications of deep learning modeling understand the mathematical terminology associated with deep learning code a generative adversarial network gan and a variational autoencoder vae to generate images from a learned latent

spaceimplement visualization techniques to compare aes and vaeswho this book is for this book is for aspiring data scientists and deep learning engineers who want to get started with the fundamentals of deep learning and neural networks although no prior knowledge of deep learning or machine learning is required familiarity with linear algebra and python programming is necessary to get started

use the power of deep learning with python to build and deploy intelligent web applications key featurescreate next generation intelligent web applications using python libraries such as flask and djangoimplement deep learning algorithms and techniques for performing smart web automationintegrate neural network architectures to create powerful full stack web applicationsbook description when used effectively deep learning techniques can help you develop intelligent web apps in this book you ll cover the latest tools and technological practices that are being used to implement deep learning in web development using python starting with the fundamentals of machine learning you ll focus on dl and the basics of neural networks including common variants such as convolutional neural networks cnns you ll learn how to integrate them into websites with the frontends of different standard web tech stacks the book then helps you gain practical experience of developing a deep learning enabled web app using python libraries such as django and flask by creating restful apis for custom models later you ll explore how to set up a cloud environment for deep learning based web deployments on google cloud and amazon services aws next you ll learn how to use microsoft s intelligent emotion api which can detect a person s emotions through a picture of their face you ll also get to grips with deploying real world websites in addition to learning how to secure websites using recaptcha and cloudflare finally you ll use nlp to integrate a voice ux through dialogflow on your web pages by the end of this book you ll have learned how to deploy intelligent web apps and websites with the help of effective tools and practices what you will learnexplore deep learning models and implement them in your browserdesign a smart

web based client using django and flaskwork with different python based apis for performing deep learning tasksimplement popular neural network models with tensorflow jsdesign and build deep web services on the cloud using deep learningget familiar with the standard workflow of taking deep learning models into productionwho this book is for this deep learning book is for data scientists machine learning practitioners and deep learning engineers who are looking to perform deep learning techniques and methodologies on the web you will also find this book useful if you re a web developer who wants to implement smart techniques in the browser to make it more interactive working knowledge of the python programming language and basic machine learning techniques will be beneficial

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

deep learning simplified by taking supervised unsupervised and reinforcement learning to the next level using the python ecosystem key features build deep learning models with transfer learning principles in python implement transfer learning to solve real world research problems perform complex operations such as image captioning neural style transfer book description transfer learning is a machine learning ml technique where knowledge gained during training a set of problems can be used to solve other similar problems the purpose of this book is two fold firstly we focus on detailed coverage of deep learning dl and transfer learning comparing and contrasting the two with easy to follow concepts and examples the second area of focus is real world examples and research problems using tensorflow keras and the python ecosystem with hands on examples the book starts with the key essential concepts of ml and dl followed by depiction and coverage of

important dl architectures such as convolutional neural networks cnns deep neural networks dnns recurrent neural networks rnns long short term memory lstm and capsule networks our focus then shifts to transfer learning concepts such as model freezing fine tuning pre trained models including vgg inception resnet and how these systems perform better than dl models with practical examples in the concluding chapters we will focus on a multitude of real world case studies and problems associated with areas such as computer vision audio analysis and natural language processing nlp by the end of this book you will be able to implement both dl and transfer learning principles in your own systems what you will learn set up your own dl environment with graphics processing unit gpu and cloud support delve into transfer learning principles with ml and dl models explore various dl architectures including cnn lstm and capsule networks learn about data and network representation and loss functions get to grips with models and strategies in transfer learning walk through potential challenges in building complex transfer learning models from scratch explore real world research problems related to computer vision and audio analysis understand how transfer learning can be leveraged in nlp who this book is for hands on transfer learning with python is for data scientists machine learning engineers analysts and developers with an interest in data and applying state of the art transfer learning methodologies to solve tough real world problems basic proficiency in machine learning and python is required

trends in deep learning methodologies algorithms applications and systems covers deep learning approaches such as neural networks deep belief networks recurrent neural networks convolutional neural networks deep auto encoder and deep generative networks which have emerged as powerful computational models chapters elaborate on these models which have shown significant success in dealing with massive data for a large number of applications given their capacity to extract complex hidden features and learn efficient representation in unsupervised settings chapters investigate deep learning based algorithms in a variety of

application including biomedical and health informatics computer vision image processing and more in recent years many powerful algorithms have been developed for matching patterns in data and making predictions about future events the major advantage of deep learning is to process big data analytics for better analysis and self adaptive algorithms to handle more data deep learning methods can deal with multiple levels of representation in which the system learns to abstract higher level representations of raw data earlier it was a common requirement to have a domain expert to develop a specific model for each specific application however recent advancements in representation learning algorithms allow researchers across various subject domains to automatically learn the patterns and representation of the given data for the development of specific models provides insights into the theory algorithms implementation and the application of deep learning techniques covers a wide range of applications of deep learning across smart healthcare and smart engineering investigates the development of new models and how they can be exploited to find appropriate solutions

an engaging and accessible introduction to deep learning perfect for students and professionals in deep learning a practical introduction a team of distinguished researchers delivers a book complete with coverage of the theoretical and practical elements of deep learning the book includes extensive examples end of chapter exercises homework exam material and a github repository containing code and data for all provided examples combining contemporary deep learning theory with state of the art tools the chapters are structured to maximize accessibility for both beginning and intermediate students the authors have included coverage of tensorflow keras and pytorch readers will also find thorough introductions to deep learning and deep learning tools comprehensive explorations of convolutional neural networks including discussions of their elements operation training and architectures practical discussions of recurrent neural networks and non supervised

approaches to deep learning fulsome treatments of generative adversarial networks as well as deep bayesian neural networks perfect for undergraduate and graduate students studying computer vision computer science artificial intelligence and neural networks deep learning a practical introduction will also benefit practitioners and researchers in the fields of deep learning and machine learning in general

fundamentals and methods of machine and deep learning the book provides a practical approach by explaining the concepts of machine learning and deep learning algorithms evaluation of methodology advances and algorithm demonstrations with applications over the past two decades the field of machine learning and its subfield deep learning have played a main role in software applications development also in recent research studies they are regarded as one of the disruptive technologies that will transform our future life business and the global economy the recent explosion of digital data in a wide variety of domains including science engineering internet of things biomedical healthcare and many business sectors has declared the era of big data which cannot be analysed by classical statistics but by the more modern robust machine learning and deep learning techniques since machine learning learns from data rather than by programming hard coded decision rules an attempt is being made to use machine learning to make computers that are able to solve problems like human experts in the field the goal of this book is to present a practical approach by explaining the concepts of machine learning and deep learning algorithms with applications supervised machine learning algorithms ensemble machine learning algorithms feature selection deep learning techniques and their applications are discussed also included in the eighteen chapters is unique information which provides a clear understanding of concepts by using algorithms and case studies illustrated with applications of machine learning and deep learning in different domains including disease prediction software defect prediction online television analysis medical image processing etc each of the chapters briefly

described below provides both a chosen approach and its implementation audience researchers and engineers in artificial intelligence computer scientists as well as software developers

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