

Sentiment Analysis And Deep Learning A Survey

Deep Learning and Neural Networks: Concepts, Methodologies, Tools, and Applications
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Mathematics of Deep Learning
Deep Learning Geometry of Deep Learning
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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

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

build neural network models in text vision and advanced analytics using pytorch key features learn pytorch for implementing cutting edge deep learning algorithms train your neural networks for higher speed and flexibility and learn how to implement them in various scenarios cover various advanced neural network architecture such as resnet inception densenet and more with practical examples book description deep learning powers the most intelligent systems in the world such as google voice siri and alexa advancements in powerful hardware such as gpus software frameworks such as pytorch keras tensorflow and cntk along with the availability of big data have made it easier to implement solutions to problems in the areas of text vision and advanced analytics this book will get you up and running with one of the most cutting edge deep learning libraries pytorch pytorch is grabbing the attention of deep learning researchers and data

science professionals due to its accessibility efficiency and being more native to python way of development you'll start off by installing pytorch then quickly move on to learn various fundamental blocks that power modern deep learning you will also learn how to use cnn rnn lstm and other networks to solve real world problems this book explains the concepts of various state of the art deep learning architectures such as resnet densenet inception and seq2seq without diving deep into the math behind them you will also learn about gpu computing during the course of the book you will see how to train a model with pytorch and dive into complex neural networks such as generative networks for producing text and images by the end of the book you'll be able to implement deep learning applications in pytorch with ease what you will learn use pytorch for gpu accelerated tensor computations build custom datasets and data loaders for images and test the models using torchvision and torchtext build an image classifier by implementing cnn architectures using pytorch build systems that do text classification and language modeling using rnn lstm and gru learn advanced cnn architectures such as resnet inception densenet and learn how to use them for transfer learning learn how to mix multiple models for a powerful ensemble model generate new images using gan's and generate artistic images using style transfer who this book is for this book is for machine learning engineers data analysts data scientists interested in deep learning and are looking to explore implementing advanced algorithms in pytorch some knowledge of machine learning is helpful but not a mandatory need working knowledge of python programming is expected

a richly illustrated full color introduction to deep learning that offers visual and conceptual explanations instead of equations you'll learn how to use key deep learning algorithms without the need for complex math ever since computers began beating us at chess they've been getting better at a wide range of human activities from writing songs and generating news articles to helping doctors provide healthcare deep learning is the source of many of these breakthroughs and its remarkable ability to find patterns hiding in data has made it the fastest growing field in artificial intelligence ai digital assistants on our phones use deep learning to understand and respond intelligently to voice commands automotive systems use it to safely navigate road hazards online platforms use it to deliver personalized suggestions for movies and books the possibilities are endless deep learning a visual approach is for anyone who wants to understand this fascinating field in depth but without any of the advanced math and programming usually required to grasp its internals if you want to know how these tools work and use them yourself the answers are all within these pages and if you're ready to write your own programs there are also plenty of supplemental python notebooks in the accompanying github repository to get you going the book's conversational style extensive color illustrations illuminating analogies and real world examples expertly explain the key concepts in deep learning including how text generators create novel stories and articles how deep learning systems learn to play and win at human games how image classification systems identify objects or people in a photo how to think about probabilities in a way that's useful to everyday life how to use the machine learning techniques that form the core of modern ai intellectual adventurers of all kinds can use the powerful

ideas covered in deep learning a visual approach to build intelligent systems that help us better understand the world and everyone who lives in it it's the future of ai and this book allows you to fully envision it full color illustrations

this book discusses deep learning from its fundamental principles to its practical applications with hands on exercises and coding it focuses on deep learning techniques and shows how to apply them across a wide range of practical scenarios the book begins with an introduction to the core concepts of deep learning it delves into topics such as transfer learning multi task learning and end to end learning providing insights into various deep learning models and their real world applications next it covers neural networks progressing from single layer perceptrons to multi layer perceptrons and solving the complexities of backpropagation and gradient descent it explains optimizing model performance through effective techniques addressing key considerations such as hyperparameters bias variance and data division it also covers convolutional neural networks cnns through two comprehensive chapters covering the architecture components and significance of kernels implementing well known cnn models such as alexnet and lenet it concludes with exploring autoencoders and generative models such as hopfield networks and boltzmann machines applying these techniques to a diverse set of practical applications these applications include image classification object detection sentiment analysis covid 19 detection and chatgpt by the end of this book you will have gained a thorough understanding of deep learning from its fundamental principles to its innovative applications enabling you to apply this knowledge to solve a wide range of real world problems what you will learn what are deep neural networks what is transfer learning multi task learning and end to end learning what are hyperparameters bias variance and data division what are cnn and rnn who this book is for machine learning engineers data scientists ai practitioners software developers and engineers interested in deep learning

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

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

deep learning a comprehensive guide provides comprehensive coverage of deep learning dl and machine learning ml concepts dl and ml are the most sought after domains requiring a deep understanding and this book gives no less than that this book enables the reader to build innovative and useful applications based on ml and dl starting with the basics of neural networks and continuing through the architecture of various types of cnns rnns lstm and more till the end of the book each and every topic is given the utmost care and shaped professionally and comprehensively key features includes the smooth transition from ml concepts to dl concepts line by line explanations have been provided for all the coding based examples includes a lot of real time examples and interview questions that will prepare the reader to take up a job in ml dl right away even a person with a non computer science background can benefit from this book by following the theory examples case studies and code snippets every chapter starts with the objective and ends with a set of quiz questions to test the reader s understanding includes references to the related youtube videos that provide additional guidance ai is a domain for everyone this book is targeted toward everyone irrespective of their field of specialization graduates and researchers in deep

learning will find this book useful

work with advanced topics in deep learning such as optimization algorithms hyper parameter tuning dropout and error analysis as well as strategies to address typical problems encountered when training deep neural networks you'll begin by studying the activation functions mostly with a single neuron relu sigmoid and swish seeing how to perform linear and logistic regression using tensorflow and choosing the right cost function the next section talks about more complicated neural network architectures with several layers and neurons and explores the problem of random initialization of weights an entire chapter is dedicated to a complete overview of neural network error analysis giving examples of solving problems originating from variance bias overfitting and datasets coming from different distributions applied deep learning also discusses how to implement logistic regression completely from scratch without using any python library except numpy to let you appreciate how libraries such as tensorflow allow quick and efficient experiments case studies for each method are included to put into practice all theoretical information you'll discover tips and tricks for writing optimized python code for example vectorizing loops with numpy what you will learn implement advanced techniques in the right way in python and tensorflow debug and optimize advanced methods such as dropout and regularization carry out error analysis to realize if one has a bias problem a variance problem a data offset problem and so on set up a machine learning project focused on deep learning on a complex dataset who this book is for readers with a medium understanding of machine learning linear algebra calculus and basic python programming

although interest in machine learning has reached a high point lofty expectations often scuttle projects before they get very far how can machine learning especially deep neural networks make a real difference in your organization this hands on guide not only provides the most practical information available on the subject but also helps you get started building efficient deep learning networks authors adam gibson and josh patterson provide theory on deep learning before introducing their open source deeplearning4j dl4j library for developing production class workflows through real world examples you'll learn methods and strategies for training deep network architectures and running deep learning workflows on spark and hadoop with dl4j dive into machine learning concepts in general as well as deep learning in particular understand how deep networks evolved from neural network fundamentals explore the major deep network architectures including convolutional and recurrent learn how to map specific deep networks to the right problem walk through the fundamentals of tuning general neural networks and specific deep network architectures use vectorization techniques for different data types with datavec dl4j's workflow tool learn how to use dl4j natively on spark and hadoop

delve into neural networks implement deep learning algorithms and explore layers of data abstraction with the help of tensorflow key features learn how to implement advanced techniques in deep learning with google's brainchild tensorflow explore deep neural networks and layers of data abstraction with the help of this comprehensive guide gain real world contextualization through some deep learning

problems concerning research and application book description deep learning is a branch of machine learning algorithms based on learning multiple levels of abstraction neural networks which are at the core of deep learning are being used in predictive analytics computer vision natural language processing time series forecasting and to perform a myriad of other complex tasks this book is conceived for developers data analysts machine learning practitioners and deep learning enthusiasts who want to build powerful robust and accurate predictive models with the power of tensorflow combined with other open source python libraries throughout the book you ll learn how to develop deep learning applications for machine learning systems using feedforward neural networks convolutional neural networks recurrent neural networks autoencoders and factorization machines discover how to attain deep learning programming on gpu in a distributed way you ll come away with an in depth knowledge of machine learning techniques and the skills to apply them to real world projects what you will learn apply deep machine intelligence and gpu computing with tensorflow access public datasets and use tensorflow to load process and transform the data discover how to use the high level tensorflow api to build more powerful applications use deep learning for scalable object detection and mobile computing train machines quickly to learn from data by exploring reinforcement learning techniques explore active areas of deep learning research and applications who this book is for the book is for people interested in machine learning and machine intelligence a rudimentary level of programming in one language is assumed as is a basic familiarity with computer science techniques and technologies including a basic awareness of computer hardware and algorithms some competence in mathematics is needed to the level of elementary linear algebra and calculus

the applications of rapidly advancing intelligent systems are so varied that many are still yet to be discovered there is often a disconnect between experts in computer science artificial intelligence machine learning robotics and other specialties which inhibits the potential for the expansion of this technology and its many benefits a resource that encourages interdisciplinary collaboration is needed to bridge the gap between these respected leaders of their own fields deep learning reinforcement learning and the rise of intelligent systems represents an exploration of the forefront of artificial intelligence navigating the complexities of this field and its many applications this guide expertly navigates through the intricate domains of deep learning and reinforcement learning offering an in depth journey through foundational principles advanced methodologies and cutting edge algorithms shaping the trajectory of intelligent systems the book covers an introduction to artificial intelligence and its subfields foundational aspects of deep learning a demystification of the architecture of neural networks the mechanics of backpropagation and the intricacies of critical elements such as activation and loss functions the book serves as a valuable educational resource for professionals its structured approach makes it an ideal reference for students researchers and industry professionals

math for deep learning provides the essential math you need to understand deep learning discussions explore more complex implementations and better use the deep learning toolkits with math for deep learning you ll learn the essential mathematics used by and

as a background for deep learning you'll work through python examples to learn key deep learning related topics in probability statistics linear algebra differential calculus and matrix calculus as well as how to implement data flow in a neural network backpropagation and gradient descent you'll also use python to work through the mathematics that underlies those algorithms and even build a fully functional neural network in addition you'll find coverage of gradient descent including variations commonly used by the deep learning community sgd adam rmsprop and adagrad adadelta

this book focuses on deep learning dl which is an important aspect of data science that includes predictive modeling dl applications are widely used in domains such as finance transport healthcare automanufacturing and advertising the design of the dl models based on artificial neural networks is influenced by the structure and operation of the brain this book presents a comprehensive resource for those who seek a solid grasp of the techniques in dl key features provides knowledge on theory and design of state of the art deep learning models for real world applications explains the concepts and terminology in problem solving with deep learning explores the theoretical basis for major algorithms and approaches in deep learning discusses the enhancement techniques of deep learning models identifies the performance evaluation techniques for deep learning models accordingly the book covers the entire process flow of deep learning by providing awareness of each of the widely used models this book can be used as a beginners guide where the user can understand the associated concepts and techniques this book will be a useful resource for undergraduate and postgraduate students engineers and researchers who are starting to learn the subject 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 unique compendium discusses some core ideas for the development and implementation of machine learning from three different perspectives the statistical perspective the artificial neural network perspective and the deep learning methodology the useful reference text represents a solid foundation in machine learning and should prepare readers to apply and understand machine learning algorithms as well as to invent new machine learning methods it tells a story outgoing from a perceptron to deep learning highlighted with concrete examples including exercises and answers for the students related link s

practical deep learning teaches total beginners how to build the datasets and models needed to train neural networks for your own dl projects if you've been curious about artificial intelligence and machine learning but didn't know where to start this is the book you've been waiting for focusing on the subfield of machine learning known as deep learning it explains core concepts and gives you the foundation you need to start building your own models rather than simply outlining recipes for using existing toolkits practical deep learning teaches you the why of deep learning and will inspire you to explore further all you need is basic familiarity with computer programming and high school math the book will cover the rest after an introduction to python you'll move through key topics like how to build a good training dataset work with the scikit learn and keras libraries and evaluate your models performance you'll also learn how to use classic machine learning models like k nearest neighbors random forests and support vector machines how neural networks work and how they're trained how to use convolutional neural networks how to develop a successful deep learning model from scratch you'll conduct experiments along the way building to a final case study that incorporates everything you've learned the perfect introduction to this dynamic ever expanding field practical deep learning will give you the skills and confidence to dive into your own machine learning projects

the goal of this book is to provide a mathematical perspective on some key elements of the so called deep neural networks dnns much of the interest in deep learning has focused on the implementation of dnn based algorithms our hope is that this compact textbook will offer a complementary point of view that emphasizes the underlying mathematical ideas we believe that a more foundational perspective will

help to answer important questions that have only received empirical answers so far the material is based on a one semester course introduction to mathematics of deep learning for senior undergraduate mathematics majors and first year graduate students in mathematics our goal is to introduce basic concepts from deep learning in a rigorous mathematical fashion e g introduce mathematical definitions of deep neural networks dnns loss functions the backpropagation algorithm etc we attempt to identify for each concept the simplest setting that minimizes technicalities but still contains the key mathematics

are you interested in deep learning and you want to know what you can achieve with it have you ever stopped to wonder how it is that google twitter or one of the countless other sites or apps has the capacity to comprehend the complex algorithms of day to day life slang terminology or even high math and science functionality if so you might already be a bit familiar with the contents of this book and are sure to find in its pages a comprehensive and thorough insight into the science behind the scenes however if this is all a new idea or curiosity of yours please enjoy as we step behind the great and powerful computer and internet to meet the man behind the curtain so to speak this book will not only explain deep learning to you as well as deep neural networks and all they encompass it will give you a better understanding of the applications and algorithms of deep learning the book also serves as a look toward the future and how much deep learning will play a part in it this book aims to give you a full insight in the world of deep learning taking you from zero to master with an easy no nonsense approach here some of the topics this book will cover an overview of deep learning how deep learning works deep learning application deep learning algorithms main architectures our future with deep learning applied deep learning is a complex thing to comprehend but this particular work will guide those interested in it by the hand and gently take them down the primrose path to a better enlightenment and understanding of the fascinating world of machine learning and all the joys and wonders it can and will accomplish

the focus of this book is on providing students with insights into geometry that can help them understand deep learning from a unified perspective rather than describing deep learning as an implementation technique as is usually the case in many existing deep learning books here deep learning is explained as an ultimate form of signal processing techniques that can be imagined to support this claim an overview of classical kernel machine learning approaches is presented and their advantages and limitations are explained following a detailed explanation of the basic building blocks of deep neural networks from a biological and algorithmic point of view the latest tools such as attention normalization transformer bert gpt 3 and others are described here too the focus is on the fact that in these heuristic approaches there is an important beautiful geometric structure behind the intuition that enables a systematic understanding a unified geometric analysis to understand the working mechanism of deep learning from high dimensional geometry is offered then different forms of generative models like gan vae normalizing flows optimal transport and so on are described from a unified geometric perspective showing that they actually come from statistical distance minimization problems because this book contains up to date information from both a practical and theoretical point of view it can be used as an advanced deep learning textbook in universities or as a reference

source for researchers interested in acquiring the latest deep learning algorithms and their underlying principles in addition the book has been prepared for a codeshare course for both engineering and mathematics students thus much of the content is interdisciplinary and will appeal to students from both disciplines

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