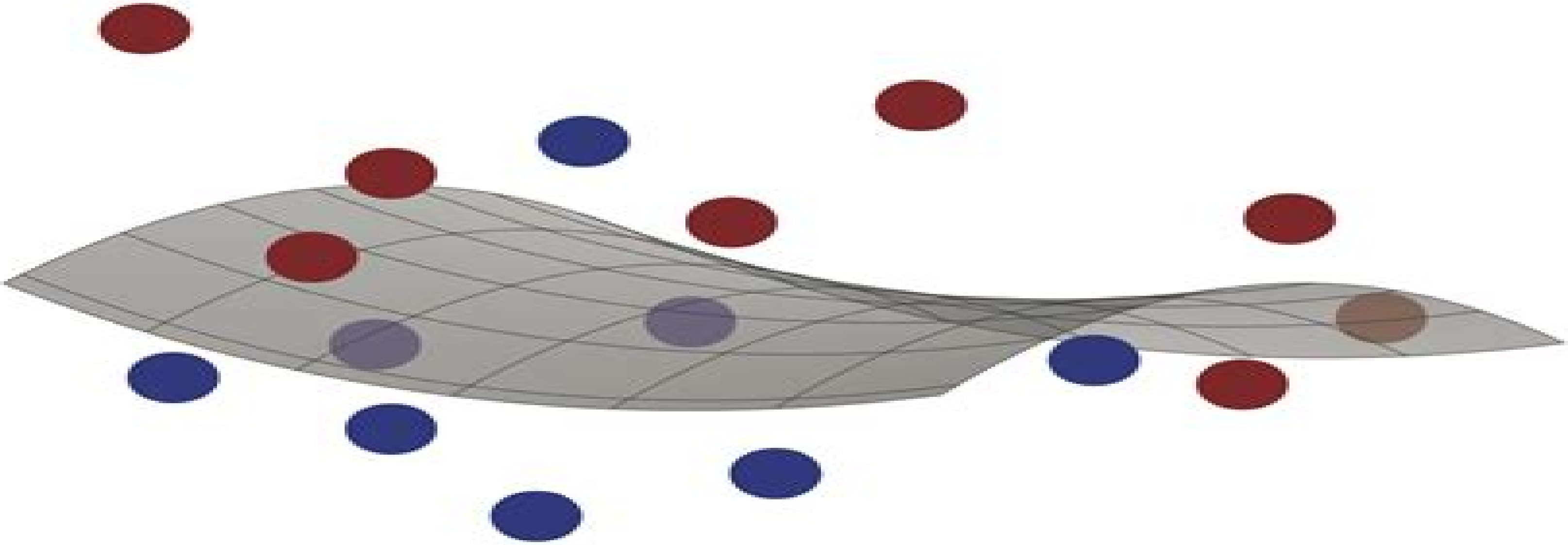
Foundations of Machine Learning

second edition



Mehryar Mohri,
Afshin Rostamizadeh,
and Ameet Talwalkar

Foundations Of Machine Learning Mehryar Mohri

Antonio Torralba,Phillip Isola,William T. Freeman

Foundations Of Machine Learning Mehryar Mohri :

Foundations of Machine Learning Mehryar Mohri,Afshin Rostamizadeh,Ameet Talwalkar,2012-08-17 Fundamental topics in machine learning are presented along with theoretical and conceptual tools for the discussion and proof of algorithms This graduate level textbook introduces fundamental concepts and methods in machine learning It describes several important modern algorithms provides the theoretical underpinnings of these algorithms and illustrates key aspects for their application The authors aim to present novel theoretical tools and concepts while giving concise proofs even for relatively advanced topics Foundations of Machine Learning fills the need for a general textbook that also offers theoretical details and an emphasis on proofs Certain topics that are often treated with insufficient attention are discussed in more detail here for example entire chapters are devoted to regression multi class classification and ranking The first three chapters lay the theoretical foundation for what follows but each remaining chapter is mostly self contained The appendix offers a concise probability review a short introduction to convex optimization tools for concentration bounds and several basic properties of matrices and norms used in the book The book is intended for graduate students and researchers in machine learning statistics and related areas it can be used either as a textbook or as a reference text for a research seminar **Foundations of Machine Learning, second edition** Mehryar Mohri,Afshin Rostamizadeh,Ameet Talwalkar,2018-12-25 A new edition of a graduate level machine learning textbook that focuses on the analysis and theory of algorithms This book is a general introduction to machine learning that can serve as a textbook for graduate students and a reference for researchers It covers fundamental modern topics in machine learning while providing the theoretical basis and conceptual tools needed for the discussion and justification of algorithms It also describes several key aspects of the application of these algorithms The authors aim to present novel theoretical tools and concepts while giving concise proofs even for relatively advanced topics Foundations of Machine Learning is unique in its focus on the analysis and theory of algorithms The first four chapters lay the theoretical foundation for what follows subsequent chapters are mostly self contained Topics covered include the Probably Approximately Correct PAC learning framework generalization bounds based on Rademacher complexity and VC dimension Support Vector Machines SVMs kernel methods boosting on line learning multi class classification ranking regression algorithmic stability dimensionality reduction learning automata and languages and reinforcement learning Each chapter ends with a set of exercises Appendixes provide additional material including concise probability review This second edition offers three new chapters on model selection maximum entropy models and conditional entropy models New material in the appendixes includes a major section on Fenchel duality expanded coverage of concentration inequalities and an entirely new entry on information theory More than half of the exercises are new to this edition Foundations of Deep Learning Fengxiang He,Dacheng Tao,2025-02-01 Deep learning has significantly reshaped a variety of technologies such as image processing natural language processing and audio processing The excellent generalizability of deep learning is like a cloud to conventional complexity based learning theory the over parameterization of deep learning makes almost all existing tools vacuous This irreconciliation considerably undermines the confidence of deploying deep learning to security critical areas including autonomous vehicles and medical diagnosis where small algorithmic mistakes can lead to fatal disasters This book seeks to explaining the excellent generalizability including generalization analysis via the size independent complexity measures the role of optimization in understanding the generalizability and the relationship between generalizability and ethical security issues The efforts to understand the excellent generalizability are following two major paths 1 developing size independent complexity measures which can evaluate the effective hypothesis complexity that can be learned instead of the whole hypothesis space and 2 modelling the learned hypothesis through stochastic gradient methods the dominant optimizers in deep learning via stochastic differential functions and the geometry of the associated loss functions Related works discover that over parameterization surprisingly bring many good properties to the loss functions Rising concerns of deep learning are seen on the ethical and security issues including privacy preservation and adversarial robustness Related works also reveal an interplay between them and generalizability a good generalizability usually means a good privacy preserving ability and more robust algorithms might have a worse generalizability We expect readers can have a big picture of the current knowledge in deep learning theory understand how the deep learning theory can guide new algorithm designing and identify future research directions Readers need knowledge of calculus linear algebra probability statistics and statistical learning theory Veridical Data Science Bin Yu,Rebecca L. Barter,2024-10-15 Using real world data case studies this innovative and accessible textbook introduces an actionable framework for conducting trustworthy data science Most textbooks present data science as a linear analytic process involving a set of statistical and computational techniques without accounting for the challenges intrinsic to real world applications Veridical Data Science by contrast embraces the reality that most projects begin with an ambiguous domain question and messy data it acknowledges that datasets are mere approximations of reality while analyses are mental constructs Bin Yu and Rebecca Barter employ the innovative Predictability Computability and Stability PCS framework to assess the trustworthiness and relevance of data driven results relative to three sources of uncertainty that arise throughout the data science life cycle the human decisions and judgment calls made during data collection cleaning and modeling By providing real world data case studies intuitive explanations of common statistical and machine learning techniques and supplementary R and Python code Veridical Data Science offers a clear and actionable guide for conducting responsible data science Requiring little background knowledge this lucid self contained textbook provides a solid foundation and principled framework for future study of advanced methods in machine learning statistics and data science Presents the Predictability Computability and Stability PCS methodology for producing trustworthy data driven results Teaches how a data science project should be conducted from beginning to end including extensive discussion of the data scientist s decision making process Cultivates critical thinking throughout the entire data science life cycle Provides practical examples and illuminating case studies of real world data analysis problems with associated code exercises and solutions Suitable for advanced undergraduate and graduate students domain scientists and practitioners *Machine Learning* Kevin P. Murphy,2012-08-24 A comprehensive introduction to machine learning that uses probabilistic models and inference as a unifying approach Today s Web enabled deluge of electronic data calls for automated methods of data analysis Machine learning provides these developing methods that can automatically detect patterns in data and then use the uncovered patterns to predict future data This textbook offers a comprehensive and self contained introduction to the field of machine learning based on a unified probabilistic approach The coverage combines breadth and depth offering necessary background material on such topics as probability optimization and linear algebra as well as discussion of recent developments in the field including conditional random fields L1 regularization and deep learning The book is written in an informal accessible style complete with pseudo code for the most important algorithms All topics are copiously illustrated with color images and worked examples drawn from such application domains as biology text processing computer vision and robotics Rather than providing a cookbook of different heuristic methods the book stresses a principled model based approach often using the language of graphical models to specify models in a concise and intuitive way Almost all the models described have been implemented in a MATLAB software package PMTK probabilistic modeling toolkit that is freely available online The book is suitable for upper level undergraduates with an introductory level college math background and beginning graduate students **Principles of Machine Learning** Wenmin Wang,2024-10-26 Conducting an in depth analysis of machine learning this book proposes three perspectives for studying machine learning the learning frameworks learning paradigms and learning tasks With this categorization the learning frameworks reside within the theoretical perspective the learning paradigms pertain to the methodological perspective and the learning tasks are situated within the problematic perspective Throughout the book a systematic explication of machine learning principles from these three perspectives is provided interspersed with some examples The book is structured into four parts encompassing a total of fifteen chapters The inaugural part titled Perspectives comprises two chapters an introductory exposition and an exploration of the conceptual foundations The second part Frameworks subdivided into five chapters each dedicated to the discussion of five seminal frameworks probability statistics connectionism symbolism and behaviorism Continuing further the third part Paradigms encompasses four chapters that explain the three paradigms of supervised learning unsupervised learning and reinforcement learning and narrating several quasi paradigms emerged in machine learning Finally the fourth part Tasks comprises four chapters delving into the prevalent learning tasks of classification regression clustering and dimensionality reduction This book provides a multi dimensional and systematic interpretation of machine learning rendering it suitable as a textbook reference for senior undergraduates or graduate students pursuing studies in artificial intelligence machine learning data science computer science and related disciplines Additionally it serves as a valuable reference for those engaged in scientific research and technical endeavors within the realm of machine learning The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content *Learning Theory from First Principles* Francis Bach,2024-12-24 A comprehensive and cutting edge introduction to the foundations and modern applications of learning theory Research has exploded in the field of machine learning resulting in complex mathematical arguments that are hard to grasp for new comers In this accessible textbook Francis Bach presents the foundations and latest advances of learning theory for graduate students as well as researchers who want to acquire a basic mathematical understanding of the most widely used machine learning architectures Taking the position that learning theory does not exist outside of algorithms that can be run in practice this book focuses on the theoretical analysis of learning algorithms as it relates to their practical performance Bach provides the simplest formulations that can be derived from first principles constructing mathematically rigorous results and proofs without overwhelming students Provides a balanced and unified treatment of most prevalent machine learning methods Emphasizes practical application and features only commonly used algorithmic frameworks Covers modern topics not found in existing texts such as overparameterized models and structured prediction Integrates coverage of statistical theory optimization theory and approximation theory Focuses on adaptivity allowing distinctions between various learning techniques Hands on experiments illustrative examples and accompanying code link theoretical guarantees to practical behaviors **Foundations of Computer Vision** Antonio Torralba,Phillip Isola,William T. Freeman,2024-04-16 An accessible authoritative and up to date computer vision textbook offering a comprehensive introduction to the foundations of the field that incorporates the latest deep learning advances Machine learning has revolutionized computer vision but the methods of today have deep roots in the history of the field Providing a much needed modern treatment this accessible and up to date textbook comprehensively introduces the foundations of computer vision while incorporating the latest deep learning advances Taking a holistic approach that goes beyond machine learning it addresses fundamental issues in the task of vision and the relationship of machine vision to human perception Foundations of Computer Vision covers topics not standard in other texts including transformers diffusion models statistical image models issues of fairness and ethics and the research process To emphasize intuitive learning concepts are presented in short lucid chapters alongside extensive illustrations questions and examples Written by leaders in the field and honed by a decade of classroom experience this engaging and highly teachable book offers an essential next generation view of computer vision Up to date treatment integrates classic computer vision and deep learning Accessible approach emphasizes fundamentals and assumes little background knowledge Student friendly presentation features extensive examples and images Proven in the classroom Instructor resources include slides solutions and source code

Neural Network Methods for Natural Language Processing Yoav Goldberg,2022-06-01 Neural networks are a family of powerful machine learning models This book focuses on the application of neural network models to natural language data

The first half of the book Parts I and II covers the basics of supervised machine learning and feed forward neural networks the basics of working with machine learning over language data and the use of vector based rather than symbolic representations for words It also covers the computation graph abstraction which allows to easily define and train arbitrary neural networks and is the basis behind the design of contemporary neural network software libraries The second part of the book Parts III and IV introduces more specialized neural network architectures including 1D convolutional neural networks recurrent neural networks conditioned generation models and attention based models These architectures and techniques are the driving force behind state of the art algorithms for machine translation syntactic parsing and many other applications Finally we also discuss tree shaped networks structured prediction and the prospects of multi task learning *Artificial Intelligence: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2016-12-12 Ongoing advancements in modern technology have led to significant developments in artificial intelligence With the numerous applications available it becomes imperative to conduct research and make further progress in this field Artificial Intelligence Concepts Methodologies Tools and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence Highlighting relevant technologies uses and techniques across various industries and settings this publication is a pivotal reference source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of artificial intelligence **Probabilistic Machine Learning** Kevin P. Murphy,2022-03-01 A detailed and up to date introduction to machine learning presented through the unifying lens of probabilistic modeling and Bayesian decision theory This book offers a detailed and up to date introduction to machine learning including deep learning through the unifying lens of probabilistic modeling and Bayesian decision theory The book covers mathematical background including linear algebra and optimization basic supervised learning including linear and logistic regression and deep neural networks as well as more advanced topics including transfer learning and unsupervised learning End of chapter exercises allow students to apply what they have learned and an appendix covers notation Probabilistic Machine Learning grew out of the author s 2012 book Machine Learning A Probabilistic Perspective More than just a simple update this is a completely new book that reflects the dramatic developments in the field since 2012 most notably deep learning In addition the new book is accompanied by online Python code using libraries such as scikit learn JAX PyTorch and Tensorflow which can be used to reproduce nearly all the figures this code can be run inside a web browser using cloud based notebooks and provides a practical complement to the theoretical topics discussed in the book This introductory text will be followed by a sequel that covers more advanced topics taking the same probabilistic approach

Deep Learning Ian Goodfellow,Yoshua Bengio,Aaron Courville,2016-11-18 An introduction to a broad range of topics in deep learning covering mathematical and conceptual background deep learning techniques used in industry and research perspectives Written by three experts in the field Deep Learning is the only comprehensive book on the subject Elon Musk cochair of OpenAI cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts Because the computer gathers knowledge from experience there is no need for a human computer operator to formally specify all the knowledge that the computer needs The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones a graph of these hierarchies would be many layers deep This book introduces a broad range of topics in deep learning The text offers mathematical and conceptual background covering relevant concepts in linear algebra probability theory and information theory numerical computation and machine learning It describes deep learning techniques used by practitioners in industry including deep feedforward networks regularization optimization algorithms convolutional networks sequence modeling and practical methodology and it surveys such applications as natural language processing speech recognition computer vision online recommendation systems bioinformatics and videogames Finally the book offers research perspectives covering such theoretical topics as linear factor models autoencoders representation learning structured probabilistic models Monte Carlo methods the partition function approximate inference and deep generative models Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research and by software engineers who want to begin using deep learning in their products or platforms A website offers supplementary material for both readers and instructors Data Science for Engineers Raghunathan Rengaswamy,Resmi Suresh,2022-12-16 With tremendous improvement in computational power and availability of rich data almost all engineering disciplines use data science at some level This textbook presents material on data science comprehensively and in a structured manner It provides conceptual understanding of the fields of data science machine learning and artificial intelligence with enough level of mathematical details necessary for the readers This will help readers understand major thematic ideas in data science machine learning and artificial intelligence and implement first level data science solutions to practical engineering problems The book Provides a systematic approach for understanding data science techniques Explain why machine learning techniques are able to cross cut several disciplines Covers topics including statistics linear algebra and optimization from a data science perspective Provides multiple examples to explain the underlying ideas in machine learning algorithms Describes several contemporary machine learning algorithms The textbook is primarily written for undergraduate and senior undergraduate students in different engineering disciplines including chemical engineering mechanical engineering electrical engineering electronics and communications engineering for courses on data science machine learning and artificial intelligence SQL for Data Science Antonio Badia,2020-11-09 This textbook explains SQL within the context of data science and introduces the different parts of SQL as they are needed for the tasks usually carried out during data analysis Using the framework of the data life cycle it focuses on the steps that are very often given the short shift in traditional textbooks like data loading cleaning and pre processing The book is organized as follows Chapter 1 describes the data life cycle i e the sequence of stages from data acquisition to archiving that data goes through as it is prepared and then actually analyzed together with the different activities that take place at each stage Chapter 2 gets into databases proper explaining how relational databases organize data Non traditional data like XML and text are also covered Chapter 3 introduces SQL queries but unlike traditional textbooks queries and their parts are described around typical data analysis tasks like data exploration cleaning and transformation Chapter 4 introduces some basic techniques for data analysis and shows how SQL can be used for some simple analyses without too much complication Chapter 5 introduces additional SQL constructs that are important in a variety of situations and thus completes the coverage of SQL queries Lastly chapter 6 briefly explains how to use SQL from within R and from within Python programs It focuses on how these languages can interact with a database and how what has been learned about SQL can be leveraged to make life easier when using R or Python All chapters contain a lot of examples and exercises on the way and readers are encouraged to install the two open source database systems MySQL and Postgres that are used throughout the book in order to practice and work on the exercises because simply reading the book is much less useful than actually using it This book is for anyone interested in data science and or databases It just demands a bit of computer fluency but no specific background on databases or data analysis All concepts are introduced intuitively and with a minimum of specialized jargon After going through this book readers should be able to profitably learn more about data mining machine learning and database management from more advanced textbooks and courses **Handbuch Virtualität** Dawid Kasprowicz,Stefan Rieger,2020-02-04 Das Handbuch positioniert den inflation r gebrauchten Begriff Virtualit t neu Er soll nicht l nger einen Ausnahmetatbestand unserer Gegenwartskultur bezeichnen Auch soll er nicht l nger auf bestimmte Bereiche Unterhaltung Computerspiel beschr nkt bleiben Vielmehr hat er inzwischen Normalit t erlangt und soll in eben dieser Normalit t auch beschrieben werden Dazu werden in Fallstudien sehr unterschiedliche Schaupl tze in den Blick genommen die in der Lebenswelt verankert sind Diese reichen von der P dagogik bis zur Medizin von der Kunst bis zur Industrie von einer ver nderten Kriegsf hrung bis zu alternativen Konzepten von Autorschaft **Mathematical Foundations of Data Science Using R** Frank Emmert-Streib,Salissou Moutari,Matthias Dehmer,2022-10-24 The aim of the book is to help students become data scientists Since this requires a series of courses over a considerable period of time the book intends to accompany students from the beginning to an advanced understanding of the knowledge and skills that define a modern data scientist The book presents a comprehensive overview of the mathematical foundations of the programming language R and of its applications to data science *Foundations of Machine Learning and Deep Learning* Dr. Sumalatha Lingamgunta, Dr. Lakshmana Rao Vadala,2025-01-06 Foundations of Machine Learning and Deep Learning is a comprehensive guide designed to provide readers with an in depth understanding of the principles and applications of ML and DL It covers a broad spectrum of topics from the basics of machine learning to advanced architectures and emerging trends making it suitable for a diverse audience The book is structured into eight chapters each focusing on critical aspects of the field Starting with an introduction to machine learning it delves into fundamental concepts like data representation supervised and unsupervised learning and neural network fundamentals The later chapters explore deep learning architectures such as CNNs RNNs and transformers along with advanced topics like GANs autoencoders and reinforcement learning Practicality is a cornerstone of this book It introduces popular tools and frameworks like TensorFlow and PyTorch providing insights into setting up environments leveraging pretrained models and optimizing performance Real world applications are interwoven throughout showcasing how ML and DL are driving innovation across industries such as healthcare finance and autonomous systems **Ensemble Machine Learning** Cha Zhang,Yunqian Ma,2012-02-17 It is common wisdom that gathering a variety of views and inputs improves the process of decision making and indeed underpins a democratic society Dubbed ensemble learning by researchers in computational intelligence and machine learning it is known to improve a decision system s robustness and accuracy Now fresh developments are allowing researchers to unleash the power of ensemble learning in an increasing range of real world applications Ensemble learning algorithms such as boosting and random forest facilitate solutions to key computational issues such as face recognition and are now being applied in areas as diverse as object tracking and bioinformatics Responding to a shortage of literature dedicated to the topic this volume offers comprehensive coverage of state of the art ensemble learning techniques including the random forest skeleton tracking algorithm in the Xbox Kinect sensor which bypasses the need for game controllers At once a solid theoretical study and a practical guide the volume is a windfall for researchers and practitioners alike **Machine Learning from Weak Supervision** Masashi Sugiyama,Han Bao,Takashi Ishida,Nan Lu,Tomoya Sakai,2022-08-23 Fundamental theory and practical algorithms of weakly supervised classification emphasizing an approach based on empirical risk minimization Standard machine learning techniques require large amounts of labeled data to work well When we apply machine learning to problems in the physical world however it is extremely difficult to collect such quantities of labeled data In this book Masashi Sugiyama Han Bao Takashi Ishida Nan Lu Tomoya Sakai and Gang Niu present theory and algorithms for weakly supervised learning a paradigm of machine learning from weakly labeled data Emphasizing an approach based on empirical risk minimization and drawing on state of the art research in weakly supervised learning the book provides both the fundamentals of the field and the advanced mathematical theories underlying them It can be used as a reference for practitioners and researchers and in the classroom The book first mathematically formulates classification problems defines common notations and reviews various algorithms for supervised binary and multiclass classification It then explores problems of binary weakly supervised classification including positive unlabeled PU classification positive negative unlabeled PNU classification and unlabeled unlabeled UU classification It then turns to multiclass classification discussing complementary label CL classification and partial label PL classification Finally the book addresses more advanced issues including a family of correction methods to improve the generalization

performance of weakly supervised learning and the problem of class prior estimation Organisation und Zivilgesellschaft Andreas Schröer,Nicolas Engel,Claudia Fahrenwald,Michael Göhlich,Christian Schröder,Susanne Maria Weber,2019-04-26 Der Band diskutiert die Besonderheiten von Organisationalem Lernen in von und zwischen zivilgesellschaftlichen Organisationen Zivilgesellschaft bildet den Kontext von Lernprozessen Lernen findet aber auch zwischen Organisationen unterschiedlicher gesellschaftlicher Sektoren statt schließlich können zivilgesellschaftliche Organisationen selbst als lernende Akteure verstanden werden Zivilgesellschaft wird zwischen Staat Markt und privaten Haushalten verortet Ihr werden unterschiedliche gesellschaftliche Rollen und Funktionen zugeschrieben die Konsequenzen für das Verständnis von Lernprozessen haben In den Beiträgen werden diese spezifischen Aspekte einer organisationspädagogischen Verhältnisbestimmung von Organisation und Zivilgesellschaft analysiert und diskutiert Der Inhalt Organisationales Lernen in der Zivilgesellschaft Theoretische Grundlagen Organisationales Lernen zwischen Zivilgesellschaft Staat und Markt Führung Steuerung und Entwicklung gesellschaftlicher Organisationen Inklusive und partizipative Forschungsstrategien Organisationspädagogik und Demokratisierung von Organisationen Die Herausgeber Dr Andreas Schröer ist Professor für Organisationspädagogik an der Universität Trier Dr Nicolas Engel ist Akademischer Rat am Lehrstuhl für Pädagogik an der FAU Erlangen Nürnberg Dr Claudia Fahrenwald ist Professorin für Organisationspädagogik mit Schwerpunkt Schulentwicklung an der PH Oberösterreich Linz Dr Michael Göhlich ist Professor für Pädagogik mit dem Schwerpunkt Organisationspädagogik an der FAU Erlangen Nürnberg Dr Christian Schröder ist wissenschaftlicher Mitarbeiter an der Hochschule für Technik und Wirtschaft des Saarlandes University of Applied Sciences Dr Susanne Maria Weber ist Professorin für gesellschaftliche politische und kulturelle Rahmenbedingungen von Bildung und Erziehung am Institut für Erziehungswissenschaft der Philipps Universität Marburg

Enjoying the Song of Phrase: An Emotional Symphony within **Foundations Of Machine Learning Mehryar Mohri**

In a global eaten by monitors and the ceaseless chatter of immediate interaction, the melodic splendor and mental symphony developed by the written term usually disappear in to the back ground, eclipsed by the relentless sound and disturbances that permeate our lives. However, set within the pages of **Foundations Of Machine Learning Mehryar Mohri** an enchanting fictional treasure brimming with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that fascinating masterpiece conducts readers on an emotional journey, skillfully unraveling the hidden melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of this poignant analysis, we can investigate the book is main harmonies, analyze its enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Foundations Of Machine Learning Mehryar Mohri Introduction

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