

Introduction to Machine Learning

CMU-10701

2. MLE, MAP, Bayes classification

Barnabás Póczos & Aarti Singh

2014 Spring

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Xiang Xie



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Signal Processing and Analysis Techniques for Nuclear Quadrupole Resonance Spectroscopy Cristian Monea, Nicu Bizon, 2021-10-11 This book is about improving prohibited substances detection using the nuclear quadrupole resonance NQR technique at security checkpoints The book proposes multiple signal processing and analysis techniques for improving detection of dangerous or contraband substances such as explosives narcotics or toxic substances Also several hardware solutions are described and implemented in a custom designed NQR spectrometer A new approach to NQR signal detection is introduced using artificial intelligence deep learning techniques The book will be useful for researchers and practitioners in the areas of electrical engineering signal processing and analysis applied spectroscopy as well as for security or laboratory equipment manufacturers

Next-Generation Machine Learning with Spark Butch Quinto, 2020-02-22 Access real world documentation and examples for the Spark platform for building large scale enterprise grade machine learning applications The past decade has seen an astonishing series of advances in machine learning These breakthroughs are disrupting our everyday life and making an impact across every industry Next Generation Machine Learning with Spark provides a gentle introduction to Spark and Spark MLlib and advances to more powerful third party machine learning algorithms and libraries beyond what is available in the standard Spark MLlib library By the end of this book you will be able to apply your knowledge to real world use cases through dozens of practical examples and insightful explanations What You Will Learn Be introduced to machine learning Spark and Spark MLlib 2 4 x Achieve lightning fast gradient boosting on Spark with the XGBoost4J Spark and LightGBM libraries Detect anomalies with the Isolation Forest algorithm for Spark Use the Spark NLP and Stanford CoreNLP libraries that support multiple languages Optimize your ML workload with the Alluxio in memory data accelerator for Spark Use GraphX and GraphFrames for Graph Analysis Perform image recognition using convolutional neural networks Utilize the Keras framework and distributed deep learning libraries with Spark Who This Book Is For Data scientists and machine learning engineers who want to take their knowledge to the next level and use Spark and more powerful next generation algorithms and libraries beyond what is available in the standard Spark MLlib library also serves as a primer for aspiring data scientists and engineers who need an introduction to machine learning Spark and Spark MLlib

Machine Learning in Signal Processing Sudeep Tanwar, Anand Nayyar, Rudra Rameshwar, 2021-12-09 Machine Learning in Signal Processing Applications Challenges and the Road Ahead offers a comprehensive approach toward research orientation for familiarizing signal processing SP concepts to machine learning ML ML as the driving force of the wave of artificial intelligence AI provides powerful solutions to many real world technical and scientific challenges This book will present the most recent and exciting advances in signal processing for ML The focus is on understanding the contributions of signal processing and ML and its aim to solve some of the biggest challenges in AI and ML FEATURES Focuses on addressing the missing connection between signal processing and ML Provides a one stop guide reference for readers

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are of vital significance to all spectrums of the community as well as to mathematicians and computing professionals across different educational levels and disciplines With contributions by leading international experts this book motivates and creates interest among young researchers

Application of AI in Credit Scoring Modeling Bohdan

Popovych,2022-12-07 The scope of this study is to investigate the capability of AI methods to accurately detect and predict credit risks based on retail borrowers features The comparison of logistic regression decision tree and random forest showed that machine learning methods are able to predict credit defaults of individuals more accurately than the logit model Furthermore it was demonstrated how random forest and decision tree models were more sensitive in detecting default borrowers

Machine Learning Steven W. Knox,2018-03-15 AN INTRODUCTION TO MACHINE LEARNING THAT INCLUDES THE FUNDAMENTAL TECHNIQUES METHODS AND APPLICATIONS PROSE Award Finalist 2019 Association of American Publishers Award for Professional and Scholarly Excellence Machine Learning a Concise Introduction offers a comprehensive introduction to the core concepts approaches and applications of machine learning The author an expert in the field presents fundamental ideas terminology and techniques for solving applied problems in classification regression clustering density estimation and dimension reduction The design principles behind the techniques are emphasized including the bias variance trade off and its influence on the design of ensemble methods Understanding these principles leads to more flexible and successful applications Machine Learning a Concise Introduction also includes methods for optimization risk estimation and model selection essential elements of most applied projects This important resource Illustrates many classification methods with a single running example highlighting similarities and differences between methods Presents R source code which shows how to apply and interpret many of the techniques covered Includes many thoughtful exercises as an integral part of the text with an appendix of selected solutions Contains useful information for effectively communicating with clients A volume in the popular Wiley Series in Probability and Statistics Machine Learning a Concise Introduction offers the practical information needed for an understanding of the methods and application of machine learning STEVEN W KNOX holds a Ph D in Mathematics from the University of Illinois and an M S in Statistics from Carnegie Mellon University He has over twenty years experience in using Machine Learning Statistics and Mathematics to solve real world problems He currently serves as Technical Director of Mathematics Research and Senior Advocate for Data Science at the National Security Agency

An Introduction to Machine Learning Gopinath Rebala,Ajay Ravi,Sanjay Churiwala,2019-05-07 Just like electricity Machine Learning will revolutionize our life in many ways some of which are not even conceivable today This book provides a thorough conceptual understanding of Machine Learning techniques and algorithms Many of the mathematical concepts are explained in an intuitive manner The book starts with an overview of machine learning and the underlying Mathematical and Statistical concepts before moving onto machine learning topics It gradually builds up the depth covering many of the present day machine learning algorithms ending in Deep Learning and Reinforcement Learning algorithms The

book also covers some of the popular Machine Learning applications The material in this book is agnostic to any specific programming language or hardware so that readers can try these concepts on whichever platforms they are already familiar with Offers a comprehensive introduction to Machine Learning while not assuming any prior knowledge of the topic Provides a complete overview of available techniques and algorithms in conceptual terms covering various application domains of machine learning Not tied to any specific software language or hardware implementation

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

A Concise Introduction to Machine Learning A.C. Faul, 2025-05-14 A Concise Introduction to Machine Learning uses mathematics as the common language to explain a variety of machine learning concepts from basic principles and illustrates every concept using examples in both Python and MATLAB which are available on GitHub and can be run from there in Binder in a web browser Each chapter concludes with exercises to explore the content The emphasis of the book is on the question of Why only if why an algorithm is successful is understood can it be properly applied and the results trusted Standard techniques are treated rigorously including an introduction to the necessary probability theory This book addresses the commonalities of methods aims to give a thorough and in depth treatment and develop intuition for the inner workings of algorithms while remaining concise This useful reference should be essential on the bookshelf of anyone employing machine learning techniques since it is born out of strong experience in university teaching and research on algorithms while remaining approachable and readable

Introduction to Machine Learning Ethem Alpaydin, 2014-08-22 Introduction Supervised learning Bayesian decision theory

Parametric methods Multivariate methods Dimensionality reduction Clustering Nonparametric methods Decision trees Linear discrimination Multilayer perceptrons Local models Kernel machines Graphical models Brief contents Hidden markov models Bayesian estimation Combining multiple learners Reinforcement learning Design and analysis of machine learning experiments

IA Revelada: como a inteligência artificial está moldando o futuro da humanidade PhD. Stanley Lima, 2025-10-23 Em um cen rio global onde a inova o tecnol gica avan a a passos largos a Intelig ncia Artificial IA n o mais um conceito distante da fic o cient fica mas uma realidade palp vel que permeia cada aspecto de nossas vidas Desde os algoritmos que personalizam nossas experi ncias online at os sistemas complexos que impulsionam a medicina de precis o e a automa o industrial a IA est redefinindo as fronteiras do poss vel e remodelando o tecido da sociedade moderna Este livro IA Revelada como a intelig ncia artificial est moldando o futuro da humanidade surge como um farol de conhecimento em meio a essa revolu o Ele foi meticulosamente elaborado para ser seu guia definitivo desmistificando os conceitos mais intrincados da IA e revelando seu vasto potencial N o importa se voc um estudante curioso um profissional buscando aprimorar suas habilidades ou um entusiasta vido por compreender as for as que moldam o amanh esta obra foi pensada para voc Nestas p ginas o Phd Stanley Lima compartilha sua expertise de forma clara e acess vel com uma abordagem que transita da teoria pr tica ele o conduzir por uma jornada de descoberta explorando desde os fundamentos matem ticos que sustentam os algoritmos de IA at as aplica es mais disruptivas que j est o transformando ind strias e a vida humana Prepare se para mergulhar em um universo onde a inova o constante e o aprendizado a chave para o sucesso Este livro n o apenas uma fonte de informa o um convite para que voc se torne um participante ativo na constru o do futuro munido do conhecimento necess rio para compreender aplicar e quem sabe at mesmo criar as pr ximas grandes inova es em Intelig ncia Artificial A jornada come a agora Bem vindo ao futuro da IA

[Introduction to Machine Learning](#) Yves Kodratoff, 1988 A textbook suitable for undergraduate courses in machine learning and related topics this book provides a broad survey of the field Generous exercises and examples give students a firm grasp of the concepts and techniques of this rapidly developing challenging subject Introduction to Machine Learning synthesizes and clarifies the work of leading researchers much of which is otherwise available only in undigested technical reports journals and conference proceedings Beginning with an overview suitable for undergraduate readers Kodratoff establishes a theoretical basis for machine learning and describes its technical concepts and major application areas Relevant logic programming examples are given in Prolog Introduction to Machine Learning is an accessible and original introduction to a significant research area

[An Introduction to Machine Learning](#) Miroslav Kubat, 2017-08-31 This textbook presents fundamental machine learning concepts in an easy to understand manner by providing practical advice using straightforward examples and offering engaging discussions of relevant applications The main topics include Bayesian classifiers nearest neighbor classifiers linear and polynomial classifiers decision trees neural networks and support vector machines Later chapters show how to combine these simple tools by way of boosting how to

exploit them in more complicated domains and how to deal with diverse advanced practical issues One chapter is dedicated to the popular genetic algorithms This revised edition contains three entirely new chapters on critical topics regarding the pragmatic application of machine learning in industry The chapters examine multi label domains unsupervised learning and its use in deep learning and logical approaches to induction Numerous chapters have been expanded and the presentation of the material has been enhanced The book contains many new exercises numerous solved examples thought provoking experiments and computer assignments for independent work

A Concise Introduction to Machine Learning Anita C. Faul, 2025 A Concise Introduction to Machine Learning uses mathematics as the common language to explain a variety of machine learning concepts from basic principles and illustrates every concept using examples in both Python and Matlab which are available on GitHub and can be run from there in Binder in a web browser Each chapter concludes with exercises to explore the content The emphasis of the book is on the question of Why only if why an algorithm is successful is understood can it be properly applied and the results trusted Standard techniques are treated rigorously including an introduction to the necessary probability theory This book addresses the commonalities and aims to give a thorough and in depth treatment and develop intuition while remaining concise This useful reference should be an essential on the bookshelves of anyone employing machine learning techniques since it is born out of strong experience in university teaching and research on algorithms while remaining approachable and readable

[Introduction to Machine Learning](#) Michael L. Littman, 2020-10

The Mathematics of Machine Learning Maria Han Veiga, François Gaston Ged, 2024-05-20 This book is an introduction to machine learning with a strong focus on the mathematics behind the standard algorithms and techniques in the field aimed at senior undergraduates and early graduate students of Mathematics There is a focus on well known supervised machine learning algorithms detailing the existing theory to provide some theoretical guarantees featuring intuitive proofs and exposition of the material in a concise and precise manner A broad set of topics is covered giving an overview of the field A summary of the topics covered is statistical learning theory approximation theory linear models kernel methods Gaussian processes deep neural networks ensemble methods and unsupervised learning techniques such as clustering and dimensionality reduction This book is suited for students who are interested in entering the field by preparing them to master the standard tools in Machine Learning The reader will be equipped to understand the main theoretical questions of the current research and to engage with the field

[Introduction to Machine Learning, fourth edition](#) Ethem Alpaydin, 2020-03-24 A substantially revised fourth edition of a comprehensive textbook including new coverage of recent advances in deep learning and neural networks The goal of machine learning is to program computers to use example data or past experience to solve a given problem Machine learning underlies such exciting new technologies as self driving cars speech recognition and translation applications This substantially revised fourth edition of a comprehensive widely used machine learning textbook offers new coverage of recent advances in the field in both theory and practice including

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