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Ensemble Methods in Data Mining

Improving Accuracy Through Combining Predictions

Giovanni Seni
John Elder

SYNTHESIS LECTURES ON DATA MINING AND KNOWLEDGE DISCOVERY

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Ensemble Methods In Data Mining Improving Accuracy Through Combining Predictions Synthesis Lectures On Data Mining And Knowledge Discovery

Badrul H. Khan,Joseph Rene Corbeil,Maria Elena Corbeil

Ensemble Methods In Data Mining Improving Accuracy Through Combining Predictions Synthesis Lectures On Data Mining And Knowledge Discovery:

Ensemble Methods in Data Mining Giovanni Seni,John Elder,2022-06-01 Ensemble methods have been called the most influential development in Data Mining and Machine Learning in the past decade They combine multiple models into one usually more accurate than the best of its components Ensembles can provide a critical boost to industrial challenges from investment timing to drug discovery and fraud detection to recommendation systems where predictive accuracy is more vital than model interpretability Ensembles are useful with all modeling algorithms but this book focuses on decision trees to explain them most clearly After describing trees and their strengths and weaknesses the authors provide an overview of regularization today understood to be a key reason for the superior performance of modern ensembling algorithms The book continues with a clear description of two recent developments Importance Sampling IS and Rule Ensembles RE IS reveals classic ensemble methods bagging random forests and boosting to be special cases of a single algorithm thereby showing how to improve their accuracy and speed REs are linear rule models derived from decision tree ensembles They are the most interpretable version of ensembles which is essential to applications such as credit scoring and fault diagnosis Lastly the authors explain the paradox of how ensembles achieve greater accuracy on new data despite their apparently much greater complexity This book is aimed at novice and advanced analytic researchers and practitioners especially in Engineering Statistics and Computer Science Those with little exposure to ensembles will learn why and how to employ this breakthrough method and advanced practitioners will gain insight into building even more powerful models Throughout snippets of code in R are provided to illustrate the algorithms described and to encourage the reader to try the techniques The authors are industry experts in data mining and machine learning who are also adjunct professors and popular speakers Although early pioneers in discovering and using ensembles they here distill and clarify the recent groundbreaking work of leading academics such as Jerome Friedman to bring the benefits of ensembles to practitioners Table of Contents Ensembles Discovered Predictive Learning and Decision Trees Model Complexity Model Selection and Regularization Importance Sampling and the Classic Ensemble Methods Rule Ensembles and Interpretation Statistics Ensemble Complexity

Ensemble Methods in Data Mining Giovanni Seni,John Elder,2010-07-07 Ensemble methods have been called the most influential development in Data Mining and Machine Learning in the past decade They combine multiple models into one usually more accurate than the best of its components Ensembles can provide a critical boost to industrial challenges from investment timing to drug discovery and fraud detection to recommendation systems where predictive accuracy is more vital than model interpretability Ensembles are useful with all modeling algorithms but this book focuses on decision trees to explain them most clearly After describing trees and their strengths and weaknesses the authors provide an overview of regularization today understood to be a key reason for the superior performance of modern ensembling algorithms The book

continues with a clear description of two recent developments Importance Sampling IS and Rule Ensembles RE IS reveals classic ensemble methods bagging random forests and boosting to be special cases of a single algorithm thereby showing how to improve their accuracy and speed REs are linear rule models derived from decision tree ensembles They are the most interpretable version of ensembles which is essential to applications such as credit scoring and fault diagnosis Lastly the authors explain the paradox of how ensembles achieve greater accuracy on new data despite their apparently much greater complexity This book is aimed at novice and advanced analytic researchers and practitioners especially in Engineering Statistics and Computer Science Those with little exposure to ensembles will learn why and how to employ this breakthrough method and advanced practitioners will gain insight into building even more powerful models Throughout snippets of code in R are provided to illustrate the algorithms described and to encourage the reader to try the techniques The authors are industry experts in data mining and machine learning who are also adjunct professors and popular speakers Although early pioneers in discovering and using ensembles they here distill and clarify the recent groundbreaking work of leading academics such as Jerome Friedman to bring the benefits of ensembles to practitioners Table of Contents Ensembles Discovered Predictive Learning and Decision Trees Model Complexity Model Selection and Regularization Importance Sampling and the Classic Ensemble Methods Rule Ensembles and Interpretation Statistics Ensemble Complexity

Combining Pattern Classifiers Ludmila I. Kuncheva,2014-09-09 A unified coherent treatment of current classifier ensemble methods from fundamentals of pattern recognition to ensemble feature selection now in its second edition The art and science of combining pattern classifiers has flourished into a prolific discipline since the first edition of Combining Pattern Classifiers was published in 2004 Dr Kuncheva has plucked from the rich landscape of recent classifier ensemble literature the topics methods and algorithms that will guide the reader toward a deeper understanding of the fundamentals design and applications of classifier ensemble methods Thoroughly updated with MATLAB code and practice data sets throughout Combining Pattern Classifiers includes Coverage of Bayes decision theory and experimental comparison of classifiers Essential ensemble methods such as Bagging Random forest AdaBoost Random subspace Rotation forest Random oracle and Error Correcting Output Code among others Chapters on classifier selection diversity and ensemble feature selection With firm grounding in the fundamentals of pattern recognition and featuring more than 140 illustrations Combining Pattern Classifiers Second Edition is a valuable reference for postgraduate students researchers and practitioners in computing and engineering **Data Mining and Predictive Analysis** Colleen McCue,2014-12-30 Data Mining and Predictive Analysis Intelligence Gathering and Crime Analysis 2nd Edition describes clearly and simply how crime clusters and other intelligence can be used to deploy security resources most effectively Rather than being reactive security agencies can anticipate and prevent crime through the appropriate application of data mining and the use of standard computer programs Data Mining and Predictive Analysis offers a clear practical starting point for professionals who need to use data

mining in homeland security security analysis and operational law enforcement settings This revised text highlights new and emerging technology discusses the importance of analytic context for ensuring successful implementation of advanced analytics in the operational setting and covers new analytic service delivery models that increase ease of use and access to high end technology and analytic capabilities The use of predictive analytics in intelligence and security analysis enables the development of meaningful information based tactics strategy and policy decisions in the operational public safety and security environment Discusses new and emerging technologies and techniques including up to date information on predictive policing a key capability in law enforcement and security Demonstrates the importance of analytic context beyond software Covers new models for effective delivery of advanced analytics to the operational environment which have increased access to even the most powerful capabilities Includes terminology concepts practical application of these concepts and examples to highlight specific techniques and approaches in crime and intelligence analysis *Predictive Analytics* Dursun Delen,2020-12-15 Use Predictive Analytics to Uncover Hidden Patterns and Correlations and Improve Decision Making Using predictive analytics techniques decision makers can uncover hidden patterns and correlations in their data and leverage these insights to improve many key business decisions In this thoroughly updated guide Dr Dursun Delen illuminates state of the art best practices for predictive analytics for both business professionals and students Delen s holistic approach covers key data mining processes and methods relevant data management techniques tools and metrics advanced text and web mining big data integration and much more Balancing theory and practice Delen presents intuitive conceptual illustrations realistic example problems and real world case studies including lessons from failed projects It s all designed to help you gain a practical understanding you can apply for profit Leverage knowledge extracted via data mining to make smarter decisions Use standardized processes and workflows to make more trustworthy predictions Predict discrete outcomes via classification numeric values via regression and changes over time via time series forecasting Understand predictive algorithms drawn from traditional statistics and advanced machine learning Discover cutting edge techniques and explore advanced applications ranging from sentiment analysis to fraud detection Computational Intelligence Methods for Bioinformatics and Biostatistics Elia Biganzoli,Alfredo Vellido,Federico Ambrogi,Roberto Tagliaferri,2012-12-11 This book constitutes the thoroughly refereed post proceedings of the 8th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics CIBB 2011 held in Gargnano del Garda Italy in June July 2011 The 19 papers presented together with 2 keynote speeches were carefully reviewed and selected from 24 submissions The papers are organized in topical sections on statistical learning genomics computational intelligence for health at the edge proteomics intelligent clinical decision support systems i CDSS bioinformatics and data clustering *Responsible Analytics and Data Mining in Education* Badrul H. Khan,Joseph Rene Corbeil,Maria Elena Corbeil,2018-12-07 Winner of two Outstanding Book Awards from the Association of Educational Communications and Technology Culture Learning how the data and its

interpretations may inadvertently impact students faculty and institutions the quality and reliability of data as well as the accuracy of data based decisions ethical implications surrounding the collection distribution and use of student generated data and more This volume unpacks and explores this complex issue through a systematic framework whose dimensions address the issues that must be considered before implementation of a new initiative or program **Mining Heterogeneous Information Networks** Yizhou Sun,Jiawei Han,2012-08-15 Real world physical and abstract data objects are interconnected forming gigantic interconnected networks By structuring these data objects and interactions between these objects into multiple types such networks become semi structured heterogeneous information networks Most real world applications that handle big data including interconnected social media and social networks scientific engineering or medical information systems online e commerce systems and most database systems can be structured into heterogeneous information networks Therefore effective analysis of large scale heterogeneous information networks poses an interesting but critical challenge In this monograph we investigate the principles and methodologies of mining heterogeneous information networks Departing from many existing network models that view data as homogeneous graphs or networks our semi structured heterogeneous information network model leverages the rich semantics of typed nodes and links in a network and uncovers surprisingly rich knowledge from interconnected data This semi structured heterogeneous network modeling leads to a series of new principles and powerful methodologies for mining interconnected data including 1 rank based clustering and classification 2 meta path based similarity search and mining 3 relation strength aware mining and many other potential developments This monograph introduces this new research frontier and points out some promising research directions *Hands-On Ensemble Learning with R* Prabhanjan Narayanachar Tattar,2018-07-27 Explore powerful R packages to create predictive models using ensemble methods Key Features Implement machine learning algorithms to build ensemble efficient models Explore powerful R packages to create predictive models using ensemble methods Learn to build ensemble models on large datasets using a practical approach Book Description Ensemble techniques are used for combining two or more similar or dissimilar machine learning algorithms to create a stronger model Such a model delivers superior prediction power and can give your datasets a boost in accuracy Hands On Ensemble Learning with R begins with the important statistical resampling methods You will then walk through the central trilogy of ensemble techniques bagging random forest and boosting then you ll learn how they can be used to provide greater accuracy on large datasets using popular R packages You will learn how to combine model predictions using different machine learning algorithms to build ensemble models In addition to this you will explore how to improve the performance of your ensemble models By the end of this book you will have learned how machine learning algorithms can be combined to reduce common problems and build simple efficient ensemble models with the help of real world examples What you will learn Carry out an essential review of re sampling methods bootstrap and jackknife Explore the key ensemble methods bagging random forests and boosting Use

multiple algorithms to make strong predictive models Enjoy a comprehensive treatment of boosting methods Supplement methods with statistical tests such as ROC Walk through data structures in classification regression survival and time series data Use the supplied R code to implement ensemble methods Learn stacking method to combine heterogeneous machine learning models Who this book is for This book is for you if you are a data scientist or machine learning developer who wants to implement machine learning techniques by building ensemble models with the power of R You will learn how to combine different machine learning algorithms to perform efficient data processing Basic knowledge of machine learning techniques and programming knowledge of R would be an added advantage **Data Science in Theory and Practice** Jaydip Sen,Sayantani Roy Choudhury,2024-09-13 This comprehensive edited volume showcases the latest breakthroughs and innovative research in the rapidly evolving field of data science and brings together contributions from leading experts and researchers who push the boundaries of the field offering readers a deep insight into the diverse facets of this transformative discipline Spanning a wide spectrum of topics the chapters in this volume cover key areas such as machine learning artificial intelligence statistical analysis and ethical considerations in data science Each chapter is a testament to the ongoing quest for knowledge and the relentless pursuit of excellence in harnessing the power of data for meaningful insights and actionable intelligence Whether you re an experienced data scientist a researcher exploring the frontiers of the field or a novice eager to grasp the fundamentals this edited volume serves as a valuable resource The compilation not only highlights the current state of data science but also anticipates future trends paving the way for continued advancements and paradigm shifts in the way we approach analyze and leverage data **Community detection and mining in social media** Lei Tang,Huan Liu,2022-06-01 The past decade has witnessed the emergence of participatory Web and social media bringing people together in many creative ways Millions of users are playing tagging working and socializing online demonstrating new forms of collaboration communication and intelligence that were hardly imaginable just a short time ago Social media also helps reshape business models sway opinions and emotions and opens up numerous possibilities to study human interaction and collective behavior in an unparalleled scale This lecture from a data mining perspective introduces characteristics of social media reviews representative tasks of computing with social media and illustrates associated challenges It introduces basic concepts presents state of the art algorithms with easy to understand examples and recommends effective evaluation methods In particular we discuss graph based community detection techniques and many important extensions that handle dynamic heterogeneous networks in social media We also demonstrate how discovered patterns of communities can be used for social media mining The concepts algorithms and methods presented in this lecture can help harness the power of social media and support building socially intelligent systems This book is an accessible introduction to the study of emph community detection and mining in social media It is an essential reading for students researchers and practitioners in disciplines and applications where social media is a key source of data that piques our curiosity to understand manage

innovate and excel This book is supported by additional materials including lecture slides the complete set of figures key references some toy data sets used in the book and the source code of representative algorithms The readers are encouraged to visit the book website for the latest information Table of Contents Social Media and Social Computing Nodes Ties and Influence Community Detection and Evaluation Communities in Heterogeneous Networks Social Media Mining

Introduction To Pattern Recognition And Machine Learning M Narasimha Murty,V Susheela Devi,2015-04-22 This book adopts a detailed and methodological algorithmic approach to explain the concepts of pattern recognition While the text provides a systematic account of its major topics such as pattern representation and nearest neighbour based classifiers current topics neural networks support vector machines and decision trees attributed to the recent vast progress in this field are also dealt with Introduction to Pattern Recognition and Machine Learning will equip readers especially senior computer science undergraduates with a deeper understanding of the subject matter Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems Vijay Nath,J. K. Mandal,2020-09-19 This book presents high quality papers from the Fourth International Conference on Microelectronics Computing Communication Systems MCCS 2019 It discusses the latest technological trends and advances in MEMS and nanoelectronics wireless communication optical communication instrumentation signal processing image processing bioengineering green energy hybrid vehicles environmental science weather forecasting cloud computing renewable energy RFID CMOS sensors actuators transducers telemetry systems embedded systems and sensor network applications It includes papers based on original theoretical practical and experimental simulations development applications measurements and testing The applications and solutions discussed here provide excellent reference material for future product development **Electronic Systems and Intelligent Computing** Pradeep Kumar Mallick,Akash Kumar Bhoi,Alfonso González-Briones,Prasant Kumar Pattnaik,2022-06-02 This book is a compilation of contributed research work from International Conference on Electronic Systems and Intelligent Computing ESIC 2021 and covers the areas of electronics communication electrical and computing This book is specifically targeted to the students research scholars and academician from the background of electronics communication electrical and computer science Advances in electronics communication electrical and computing cover the different approaches and techniques for specific applications using particle swarm optimization Otsu s function and harmony search optimization algorithm DNA NAND gate triple gate SOI MOSFET micro Raman and FTIR analysis high k dielectric gate oxide spectrum sensing in cognitive radio microstrip antenna GPR with conducting surfaces energy efficient packet routing iBGP route reflectors circularly polarized antenna double fork shaped patch radiator implementation of Doppler radar at 24 GHz iris image classification using SVM digital image forgery detection secure communication spoken dialog system and DFT DCT spreading strategies The Practical Guide to HR Analytics Shonna D. Waters,Valerie Streets,Lindsay McFarlane,Rachael Johnson-Murray,2018-06-15 HR professionals are increasingly expected to understand and apply data

analytics but many don t know where to start The Practical Guide to HR Analytics offers a clear practical guide to understanding and applying data to real world HR issues From making the business case for analytics to launching an HR analytics function the book walks readers through the forms uses and interpretations of data in an HR context It covers essential topics like avoiding common pitfalls visualizing data effectively and using storytelling to communicate findings With straightforward language and actionable advice it helps demystify analytics for professionals at all levels Whether you re new to analytics or seeking to sharpen your skills this is your go to resource for data driven HR **Machine Learning in Action** Peter Harrington,2012-04-03 Summary Machine Learning in Action is unique book that blends the foundational theories of machine learning with the practical realities of building tools for everyday data analysis You ll use the flexible Python programming language to build programs that implement algorithms for data classification forecasting recommendations and higher level features like summarization and simplification About the Book A machine is said to learn when its performance improves with experience Learning requires algorithms and programs that capture data and ferret out the interestingor useful patterns Once the specialized domain of analysts and mathematicians machine learning is becoming a skill needed by many Machine Learning in Action is a clearly written tutorial for developers It avoids academic language and takes you straight to the techniques you ll use in your day to day work Many Python examples present the core algorithms of statistical data processing data analysis and data visualization in code you can reuse You ll understand the concepts and how they fit in with tactical tasks like classification forecasting recommendations and higher level features like summarization and simplification Readers need no prior experience with machine learning or statistical processing Familiarity with Python is helpful Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside A no nonsense introduction Examples showing common ML tasks Everyday data analysis Implementing classic algorithms like Apriori and Adaboos Table of Contents PART 1 CLASSIFICATION Machine learning basics Classifying with k Nearest Neighbors Splitting datasets one feature at a time decision trees Classifying with probability theory na ve Bayes Logistic regression Support vector machines Improving classification with the AdaBoost meta algorithm PART 2 FORECASTING NUMERIC VALUES WITH REGRESSION Predicting numeric values regression Tree based regression PART 3 UNSUPERVISED LEARNING Grouping unlabeled items using k means clustering Association analysis with the Apriori algorithm Efficiently finding frequent itemsets with FP growth PART 4 ADDITIONAL TOOLS Using principal component analysis to simplify data Simplifying data with the singular value decomposition Big data and MapReduce

Advances in Artificial Intelligence Ebrahim Bagheri,Jackie C.K. Cheung,2018-04-23 This book constitutes the refereed proceedings of the 31th Canadian Conference on Artificial Intelligence Canadian AI 2018 held in Toronto ON Canada in May 2018 The 16 regular papers and 18 short papers presented together with 7 Graduate Student Symposium papers and 4 Industry Track papers were carefully reviewed and selected from 72 submissions The focus of the conference was on

artificial intelligence research and advanced information and communications technology **Privacy in Social Networks** Elena Zheleva,Evimaria Terzi,Lise Getoor,2013-03-01 This synthesis lecture provides a survey of work on privacy in online social networks OSNs This work encompasses concerns of users as well as service providers and third parties Our goal is to approach such concerns from a computer science perspective and building upon existing work on privacy security statistical modeling and databases to provide an overview of the technical and algorithmic issues related to privacy in OSNs We start our survey by introducing a simple OSN data model and describe common statistical inference techniques that can be used to infer potentially sensitive information Next we describe some privacy definitions and privacy mechanisms for data publishing Finally we describe a set of recent techniques for modeling evaluating and managing individual users privacy risk within the context of OSNs Table of Contents Introduction A Model for Online Social Networks Types of Privacy Disclosure Statistical Methods for Inferring Information in Networks Anonymity and Differential Privacy Attacks and Privacy preserving Mechanisms Models of Information Sharing Users Privacy Risk Management of Privacy Settings **DYNAMIC NEUTROSOPHIC COGNITIVE MAP WITH IMPROVED CUCKOO SEARCH ALGORITHM (DNCM-ICSA) AND ENSEMBLE CLASSIFIER FOR RHEUMATOID ARTHRITIS** B. Chithra,R. Nedunchezhian, Rheumatoid Arthritis RA falls under the group of chronic autoimmune diseases which affects the joints and muscles and can lead to considerable damage to the joint structure and their functionality RA diagnosis much in early stages is quite critical in stopping the progression of the disease In this technical work Dynamic Neutrosophic Cognitive Map with Improved Cuckoo Search Algorithm DNCM ICSA with ensemble classifier is introduced for obtaining the gene expression profile which distinguishes between the persons affected with RA and probable subjects of control **Machine Learning for Factor Investing** Guillaume Coqueret,Tony Guida,2023-08-08 Machine learning ML is progressively reshaping the fields of quantitative finance and algorithmic trading ML tools are increasingly adopted by hedge funds and asset managers notably for alpha signal generation and stocks selection The technicality of the subject can make it hard for non specialists to join the bandwagon as the jargon and coding requirements may seem out of reach Machine learning for factor investing Python version bridges this gap It provides a comprehensive tour of modern ML based investment strategies that rely on firm characteristics The book covers a wide array of subjects which range from economic rationales to rigorous portfolio back testing and encompass both data processing and model interpretability Common supervised learning algorithms such as tree models and neural networks are explained in the context of style investing and the reader can also dig into more complex techniques like autoencoder asset returns Bayesian additive trees and causal models All topics are illustrated with self contained Python code samples and snippets that are applied to a large public dataset that contains over 90 predictors The material along with the content of the book is available online so that readers can reproduce and enhance the examples at their convenience If you have even a basic knowledge of quantitative finance this combination of theoretical concepts and practical illustrations will help you learn

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