Probabilistic Programming

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Probabilistic Programming:

Practical Probabilistic Programming Avi Pfeffer,2016-03-29 Summary Practical Probabilistic Programming introduces the working programmer to probabilistic programming In it you ll learn how to use the PP paradigm to model application domains and then express those probabilistic models in code Although PP can seem abstract in this book you ll immediately work on practical examples like using the Figaro language to build a spam filter and applying Bayesian and Markov networks to diagnose computer system data problems and recover digital images Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology The data you accumulate about your customers products and website users can help you not only to interpret your past it can also help you predict your future Probabilistic programming uses code to draw probabilistic inferences from data By applying specialized algorithms your programs assign degrees of probability to conclusions This means you can forecast future events like sales trends computer system failures experimental outcomes and many other critical concerns About the Book Practical Probabilistic Programming introduces the working programmer to probabilistic programming In this book you ll immediately work on practical examples like building a spam filter diagnosing computer system data problems and recovering digital images You ll discover probabilistic inference where algorithms help make extended predictions about issues like social media usage Along the way you ll learn to use functional style programming for text analysis object oriented models to predict social phenomena like the spread of tweets and open universe models to gauge real life social media usage The book also has chapters on how probabilistic models can help in decision making and modeling of dynamic systems What s Inside Introduction to probabilistic modeling Writing probabilistic programs in Figaro Building Bayesian networks Predicting product lifecycles Decision making algorithms About the Reader This book assumes no prior exposure to probabilistic programming Knowledge of Scala is helpful About the Author Avi Pfeffer is the principal developer of the Figaro language for probabilistic programming Table of Contents PART 1 INTRODUCING PROBABILISTIC PROGRAMMING AND FIGARO Probabilistic programming in a nutshell A quick Figaro tutorial Creating a probabilistic programming application PART 2 WRITING PROBABILISTIC PROGRAMS Probabilistic models and probabilistic programs Modeling dependencies with Bayesian and Markov networks Using Scala and Figaro collections to build up models Object oriented probabilistic modeling Modeling dynamic systems PART 3 INFERENCE The three rules of probabilistic inference Factored inference algorithms Sampling algorithms Solving other inference tasks Dynamic reasoning and parameter learning **Foundations of Probabilistic Programming** Gilles Barthe,Joost-Pieter Katoen,Alexandra Silva,2020-12-03 This book provides an overview of the theoretical underpinnings of modern probabilistic programming and presents applications in e g machine learning security and approximate computing Comprehensive survey chapters make the material accessible to graduate students and non experts This title is also available as Open Access on Cambridge Core Probabilistic Programming S. Vajda,2014-07-03 Probabilistic Programming discusses a high level

language known as probabilistic programming This book consists of three chapters Chapter I deals with wait and see problems that require waiting until an observation is made on the random elements while Chapter II contains the analysis of decision problems particularly of so called two stage problems The last chapter focuses on chance constraints such as constraints that are not expected to be always satisfied but only in a proportion of cases or with given probabilities This text specifically deliberates the decision regions for optimality probability distributions Kall s Theorem and two stage programming under uncertainty The complete problem active approach quantile rules randomized decisions and nonzero order rules are also covered This publication is suitable for developers aiming to define and automatically solve probability models   Programming Languages and Systems Thomas Wies,2023-04-16 This open access book constitutes the proceedings of the 32nd European Symposium on Programming ESOP 2023 which was held during April 22 27 2023 in Paris France as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2023 The 20 regular papers presented in this volume were carefully reviewed and selected from 55 submissions They deal with fundamental issues in the specification design analysis and implementation of programming languages and systems   **Foundations of Probabilistic Programming** Gilles Barthe,Joost-Pieter Katoen,Alexandra Silva,2020-12-03 What does a probabilistic program actually compute How can one formally reason about such probabilistic programs This valuable guide covers such elementary questions and more It provides a state of the art overview of the theoretical underpinnings of modern probabilistic programming and their applications in machine learning security and other domains at a level suitable for graduate students and non experts in the field In addition the book treats the connection between probabilistic programs and mathematical logic security what is the probability that software leaks confidential information and presents three programming languages for different applications Excel tables program testing and approximate computing This title is also available as Open Access on Cambridge Core   Practical Aspects of Declarative Languages Francesco Calimeri,Kevin Hamlen,Nicola Leone,2018-01-02 This book constitutes the proceedings of the 20th International Symposium on Practical Aspects of Declarative Languages PADL 2018 held in Los Angeles CA USA in January 2018 and collocated with the 45th ACM SIGPLAN Symposium on Principles of Programming Languages The 13 regular papers presented in this volume together with the abstracts of 2 invited talks were carefully reviewed and selected from 23 submissions They deal with functional programming constraint programming and business rules prolog and optimization and answer set programming   *Quantitative Evaluation of Systems* David Parker,Verena Wolf,2019-09-04 This book constitutes the proceedings of the 16th International Conference on Quantitative Evaluation Systems QEST 2019 held in Glasgow UK in September 2019 The 17 full papers presented together with 2 short papers were carefully reviewed and selected from 40 submissions The papers cover topics in the field of Probabilistic Verification Learning and Verification Hybrid Systems Security Probabilistic Modelling and Abstraction and Applications and Tools   **Probability for Machine Learning** Jason Brownlee,2019-09-24 Probability is

the bedrock of machine learning You cannot develop a deep understanding and application of machine learning without it Cut through the equations Greek letters and confusion and discover the topics in probability that you need to know Using clear explanations standard Python libraries and step by step tutorial lessons you will discover the importance of probability to machine learning Bayesian probability entropy density estimation maximum likelihood and much more *Foundations of Probabilistic Logic Programming* Fabrizio Riguzzi,2022 Probabilistic logic programming extends logic programming by enabling the representation of uncertain information by means of probability theory Probabilistic logic programming is at the intersection of two wider research fields the integration of logic and probability and probabilistic programming Logic enables the representation of complex relations among entities while probability theory is useful for modeling uncertainty over attributes and relations Combining the two is a very active field of study Probabilistic programming extends programming languages with probabilistic primitives that can be used to write complex probabilistic models Algorithms for inference and learning tasks are then provided automatically by the system Probabilistic logic programming is at the same time a logic language with its knowledge representation capabilities and a Turing complete language with its computation capabilities thus providing the best of both worlds Since its birth the field of probabilistic logic programming has seen a steady increase of activity with many proposals for languages and algorithms for inference and learning This book aims at providing an overview of the field with a special emphasis on languages under the distribution semantics one of the most influential approaches The book presents the main ideas for semantics inference and learning and highlights connections between the methods Many examples of the book include a link to a page of the web application http cplint eu where the code can be run online This 2nd edition aims at reporting the most exciting novelties in the field since the publication of the 1st edition The semantics for hybrid programs with function symbols is placed on a sound footing **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,1994 **Proceedings of the Twenty Second Annual ACM Symposium on Theory of Computing** ,1990 *Logic Programming* Andrei Voronkov,1992 This volume contains the proceedings of two Russian conferences on logic programming held in 1990 in Irkutsk and in 1991 in St Petersburg The aim of the conferences was to bring together researchers from the Russian and the international logic programming communities Topics covered in the volume include logic programming automated theorem proving non monotonic reasoning applications of mathematical logic to computer science deductivedatabases implementation of declarative concepts and programming in non classical logics This is the first volume to represent activity in the field of logic programming in the countries of the former Soviet Union PUBLISHER S WEBSITE *Deep Learning with JAX* Grigory Sapunov,2024-12-03 Accelerate deep learning and other number intensive tasks with JAX Google s awesome high performance numerical computing library The JAX numerical computing library tackles the core performance challenges at the heart of deep learning and other scientific computing tasks By combining Google s Accelerated Linear Algebra platform XLA with a hyper optimized version of NumPy

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and the Management Sciences. National Meeting,2008   **20th Annual Symposium on Foundations of Computer Science, Oct. 29-31, 1979, San Juan, Puerto Rico** ,1979   **Bayesian Methods for Hackers** Cameron Davidson-Pilon,2015-09-30 Master Bayesian Inference through Practical Examples and Computation Without Advanced Mathematical Analysis Bayesian methods of inference are deeply natural and extremely powerful However most discussions of Bayesian inference rely on intensely complex mathematical analyses and artificial examples making it inaccessible to anyone without a strong mathematical background Now though Cameron Davidson Pilon introduces Bayesian inference from a computational perspective bridging theory to practice freeing you to get results using computing power Bayesian Methods for Hackers illuminates Bayesian inference through probabilistic programming with the powerful PyMC language and the closely related Python tools NumPy SciPy and Matplotlib Using this approach you can reach effective solutions in small increments without extensive mathematical intervention Davidson Pilon begins by introducing the concepts underlying Bayesian inference comparing it with other techniques and guiding you through building and training your first Bayesian model Next he introduces PyMC through a series of detailed examples and intuitive explanations that have been refined after extensive user feedback You ll learn how to use the Markov Chain Monte Carlo algorithm choose appropriate sample sizes and priors work with loss functions and apply Bayesian inference in domains ranging from finance to marketing Once you ve mastered these techniques you ll constantly turn to this guide for the working PyMC code you need to jumpstart future projects Coverage includes Learning the Bayesian state of mind and its practical implications Understanding how computers perform Bayesian inference Using the PyMC Python library to program Bayesian analyses Building and debugging models with PyMC Testing your model s goodness of fit Opening the black box of the Markov Chain Monte Carlo algorithm to see how and why it works Leveraging the power of the Law of Large Numbers Mastering key concepts such as clustering convergence autocorrelation and thinning Using loss functions to measure an estimate s weaknesses based on your goals and desired outcomes Selecting appropriate priors and understanding how their influence changes with dataset size Overcoming the exploration versus exploitation dilemma deciding when pretty good is good enough Using Bayesian inference to improve A B testing Solving data science problems when only small amounts of data are available Cameron Davidson Pilon has worked in many areas of applied mathematics from the evolutionary dynamics of genes and diseases to stochastic modeling of financial prices His contributions to the open source community include lifelines an implementation of survival analysis in Python Educated at the University of Waterloo and at the Independent University of Moscow he currently works with the online commerce leader Shopify

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