Probabilistic Programming

Gilles Barthe,Joost-Pieter Katoen,Alexandra Silva

Probabilistic Programming:

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   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   **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 **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 *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 *Foundations of Probabilistic Logic Programming* Fabrizio Riguzzi,2023-07-07 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 was placed on a sound footing Probabilistic Answer Set Programming gained a lot of interest together with the studies on the complexity of inference Algorithms for solving the MPE and MAP tasks are now available Inference for hybrid programs has changed dramatically with the introduction of Weighted Model Integration With respect to learning the first approaches for neuro symbolic integration have appeared together with algorithms for learning the structure for hybrid programs Moreover given the cost of learning PLPs various works proposed language restrictions to speed up learning and improve its scaling   Proceedings of the Twenty Second Annual ACM Symposium on Theory of Computing ,1990   ACM Transactions on Programming Languages and Systems Association for Computing Machinery,1994   **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 and a variety of other high performance features JAX delivers a huge performance boost in low level computations and transformations In Deep Learning with JAX you will learn how to Use JAX for numerical calculations Build differentiable models with JAX primitives Run distributed and parallelized computations with JAX Use high level neural network libraries such as Flax Leverage libraries and modules from the JAX ecosystem Deep Learning with JAX is a hands on guide to using JAX for deep learning and other mathematically intensive applications Google Developer Expert Grigory Sapunov steadily builds your understanding of JAX s concepts The engaging examples introduce the fundamental concepts on which JAX relies and then show you how to apply them to real world tasks You ll learn how to use JAX s ecosystem of high level libraries and modules and also how to combine TensorFlow and PyTorch with JAX for data loading and deployment About the technology Google s JAX offers a fresh vision for deep learning This powerful library gives you fine control over low level processes like gradient calculations delivering fast and efficient model training and inference especially on large datasets JAX has transformed how research scientists approach deep learning Now boasting a robust ecosystem of tools and libraries JAX makes evolutionary computations federated learning and other performance sensitive tasks approachable for all types of applications About the book Deep Learning with JAX teaches you to build effective neural networks with JAX In this example rich book you ll discover how JAX s unique features help you tackle important deep learning performance challenges like distributing computations across a cluster of TPUs You ll put the library into action as you create an image classification tool an image filter application and other realistic projects The nicely annotated code listings demonstrate how JAX s functional programming mindset improves composability and parallelization What s inside Use JAX for numerical calculations Build differentiable models with JAX primitives Run distributed and parallelized computations with JAX Use high level neural

network libraries such as Flax About the reader For intermediate Python programmers who are familiar with deep learning About the author Grigory Sapunov holds a Ph D in artificial intelligence and is a Google Developer Expert in Machine Learning The technical editor on this book was Nicholas McGreivy Table of Contents Part 1 1 When and why to use JAX 2 Your first program in JAX Part 2 3 Working with arrays 4 Calculating gradients 5 Compiling your code 6 Vectorizing your code 7 Parallelizing your computations 8 Using tensor sharding 9 Random numbers in JAX 10 Working with pytrees Part 3 11 Higher level neural network libraries 12 Other members of the JAX ecosystem A Installing JAX B Using Google Colab C Using Google Cloud TPUs D Experimental parallelization   *Logic Programming and Non-monotonic Reasoning* ,2004

<u>Principles and Practice of Declarative Programming</u> ,2000   **20th Annual Symposium on Foundations of Computer Science, Oct. 29-31, 1979, San Juan, Puerto Rico** ,1979   **Programming Concepts and Methods** M. Broy,Cliff B. Jones,1990 The papers presented in this book were originally presented at a conference organized jointly by IFIP working groups 2 2 and 2 3 The titles of the groups are Formal Description of Programming Concepts and Programming Methodology respectively There is no formal division between these two areas The papers here which relate to fundamental notions and notations reflect current issues in formal semantic description Programming methods use such description languages but are also concerned with methods of developing implementations which can be shown to satisfy their specifications Members of both working groups have an interest in mechanical support for the task of proving theorems and the book includes several papers relating to such systems or their underlying logical frameworks   **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   **Tutorials in Operations Research** Institute for Operations Research and the Management Sciences. National Meeting,2008   *Automata, Languages, and Programming* ,2005   *Proceedings of the ... International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming* ,2000   <u>Exploiting Program Structure for Scaling Probabilistic Programming</u> Steven Holtzen,2021 Probabilistic modeling and reasoning are central tasks in artificial intelligence and machine learning A probabilistic model is a rough description of the world the model builder attempts to capture as much detail about the world s complexities as she can and when no more detail can be given the rest is left as probabilistic uncertainty Once constructed the goal of a model is to perform automated inference compute the probability that some particular fact is true about the world It is natural for the model builder to want a flexible expressive language the world is a complex thing to describe and

over time this has led to a trend of increasingly powerful modeling languages This trend is taken to its apex by probabilistic programming languages PPLs which enable modelers to specify probabilistic models using the facilities of a full programming language However this expressivity comes at a cost the computational cost of inference is in direct tension with the flexibility of the modeling language and so it becomes increasingly difficult to design automated inference algorithms that scale to the kinds of systems that model builders want to create This thesis focuses on the central question how can we design effective probabilistic programming languages that profitably trade off expressivity and tractability for inference The approach taken here is first to identify and exploit important structure that a probabilistic program may possess The kinds of structure considered here are discrete program structure and symmetry Programs are heterogeneous objects so different parts of programs may exhibit different kinds of structure in the second part of the thesis I show how to decompose heterogeneous probabilistic program inference using a notion of program abstraction These contributions enable new applications of probabilistic programs in domains such as text analysis verification of probabilistic systems and classical simulation of quantum algorithms **Proceedings of the Conference on Probability Theory** ,1977

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