

Graphical Models

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1. Introduction

The fields of Statistics and Computer Science have generally followed separate paths for the past several decades, each field providing useful services to the other, but with the core concerns of the two fields rarely appearing to intersect. In recent years, however, it has become increasingly evident that the long-term goals of the two fields are closely aligned. Statisticians are increasingly concerned with the computational aspects, both theoretical and practical, of models and inference procedures. Computer scientists are increasingly concerned with systems that interact with the external world and interpret uncertain data in terms of underlying probabilistic models. One area in which these trends are most evident is that of probabilistic graphical models.

 A graphical model is a family of probability distributions defined in terms of a directed or undirected graph. The nodes in the graph are identified with random variables, and joint probability distributions are defined by taking products over functions defined on connected subsets of nodes. By exploiting the graph-theoretic representation, the formalism provides general algorithms for computing marginal and conditional probabilities of interest. Moreover, the formalism provides control over the computational complexity associated with these operations.

The graphical model formalism is agnostic to the distinction between frequentist and Bayesian statistics. However, by providing general machinery for manipulating joint probability distributions, and in particular by making hierarchical latent variable models easy to represent and manipulate, the formalism has proved to be particularly popular within the Bayesian paradigm. Viewing Bayesian statistics as the systematic application of probability theory to statistics, and viewing graphical models as a systematic application of graph-theoretic algorithms to probability theory, it should not be surprising that many authors have viewed graphical models as a general Bayesian “inference engine” (Cowell et al., 1999).

What is perhaps most distinctive about the graphical model approach is its naturalness in formulating probabilistic models of complex phenomena in applied fields, while maintaining control over the computational cost associated with these models. Accordingly, in this article our principal focus is on the presentation of graphical models that have proved useful in applied domains, and on ways in which the formalism encourages the exploration of extensions of classical methods. Before turning to these examples, however, we begin with an overview of basic concepts.

2. Representation

The two most common forms of graphical model are *directed graphical models* and *undirected graphical models*, based on directed acyclic graphs and undirected graphs, respectively.

Let us begin with the directed case. Let $\mathcal{G}(V, \mathcal{E})$ be a directed acyclic graph, where V are the nodes and $\mathcal{E}$ are the edges of the graph. Let $\{X_v : v \in V\}$ be a collection of random variables indexed by the nodes of the graph. To each node $v \in V$, let π_v denote the subset of indices of its parents. We allow sets of indices to appear wherever a single index appears, thus X_{π_v} denotes the vector of random variables indexed by the parents of v . Given a collection of kernels, $\{k(x_v | x_{\pi_v}) : v \in V\}$, that sum (in the discrete case) or integrate (in the continuous case) to one (with respect to x_v),

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Daphne Koller, Nir Friedman



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Probabilistic Graphical Models Daphne Koller, Nir Friedman, 2009-07-31 A general framework for constructing and using probabilistic models of complex systems that would enable a computer to use available information for making decisions Most tasks require a person or an automated system to reason to reach conclusions based on available information The framework of probabilistic graphical models presented in this book provides a general approach for this task The approach is model based allowing interpretable models to be constructed and then manipulated by reasoning algorithms These models can also be learned automatically from data allowing the approach to be used in cases where manually constructing a model is difficult or even impossible Because uncertainty is an inescapable aspect of most real world applications the book focuses on probabilistic models which make the uncertainty explicit and provide models that are more faithful to reality Probabilistic Graphical Models discusses a variety of models spanning Bayesian networks undirected Markov networks discrete and continuous models and extensions to deal with dynamical systems and relational data For each class of models the text describes the three fundamental cornerstones representation inference and learning presenting both basic concepts and advanced techniques Finally the book considers the use of the proposed framework for causal reasoning and decision making under uncertainty The main text in each chapter provides the detailed technical development of the key ideas Most chapters also include boxes with additional material skill boxes which describe techniques case study boxes which discuss empirical cases related to the approach described in the text including applications in computer vision robotics natural language understanding and computational biology and concept boxes which present significant concepts drawn from the material in the chapter Instructors and readers can group chapters in various combinations from core topics to more technically advanced material to suit their particular needs [Advanced Lectures on Machine Learning](#) Shahr Mendelson, Alexander J. Smola, 2003-01-31 This book presents revised reviewed versions of lectures given during the Machine Learning Summer School held in Canberra Australia in February 2002 The lectures address the following key topics in algorithmic learning statistical learning theory kernel methods boosting reinforcement learning theory learning association rule learning and learning linear classifier systems Thus the book is well balanced between classical topics and new approaches in machine learning Advanced students and lecturers will find this book a coherent in depth overview of this exciting area while researchers will use this book as a valuable source of reference *Probabilistic Graphical Models for Genetics, Genomics, and Postgenomics* Christine Sinoquet, Raphaël Mourad, 2014 At the crossroads between statistics and machine learning probabilistic graphical models PGMs provide a powerful formal framework to model complex data An expanding volume of biological data of various types the so called omics is in need of accurate and efficient methods for modelling and PGMs are expected to have a prominent role to play **Probabilistic Graphical Models for Computer Vision.** Qiang Ji, 2019-12-12 Probabilistic Graphical Models for Computer Vision introduces probabilistic graphical models

PGMs for computer vision problems and teaches how to develop the PGM model from training data This book discusses PGMs and their significance in the context of solving computer vision problems giving the basic concepts definitions and properties It also provides a comprehensive introduction to well established theories for different types of PGMs including both directed and undirected PGMs such as Bayesian Networks Markov Networks and their variants Discusses PGM theories and techniques with computer vision examples Focuses on well established PGM theories that are accompanied by corresponding pseudocode for computer vision Includes an extensive list of references online resources and a list of publicly available and commercial software Covers computer vision tasks including feature extraction and image segmentation object and facial recognition human activity recognition object tracking and 3D reconstruction

Learning with Kernels Bernhard Scholkopf, Alexander J. Smola, 2018-06-05 A comprehensive introduction to Support Vector Machines and related kernel methods In the 1990s a new type of learning algorithm was developed based on results from statistical learning theory the Support Vector Machine SVM This gave rise to a new class of theoretically elegant learning machines that use a central concept of SVMs kernels for a number of learning tasks Kernel machines provide a modular framework that can be adapted to different tasks and domains by the choice of the kernel function and the base algorithm They are replacing neural networks in a variety of fields including engineering information retrieval and bioinformatics Learning with Kernels provides an introduction to SVMs and related kernel methods Although the book begins with the basics it also includes the latest research It provides all of the concepts necessary to enable a reader equipped with some basic mathematical knowledge to enter the world of machine learning using theoretically well founded yet easy to use kernel algorithms and to understand and apply the powerful algorithms that have been developed over the last few years

High-Dimensional Data Analysis with Low-Dimensional Models John Wright, Yi Ma, 2022-01-13 Connects fundamental mathematical theory with real world problems through efficient and scalable optimization algorithms

Probabilistic Machine Learning Kevin P. Murphy, 2023-08-15 An advanced book for researchers and graduate students working in machine learning and statistics who want to learn about deep learning Bayesian inference generative models and decision making under uncertainty An advanced counterpart to Probabilistic Machine Learning An Introduction this high level textbook provides researchers and graduate students detailed coverage of cutting edge topics in machine learning including deep generative modeling graphical models Bayesian inference reinforcement learning and causality This volume puts deep learning into a larger statistical context and unifies approaches based on deep learning with ones based on probabilistic modeling and inference With contributions from top scientists and domain experts from places such as Google DeepMind Amazon Purdue University NYU and the University of Washington this rigorous book is essential to understanding the vital issues in machine learning Covers generation of high dimensional outputs such as images text and graphs Discusses methods for discovering insights about data based on latent variable models Considers training and testing under different distributions Explores how to use probabilistic models and

inference for causal inference and decision making Features online Python code accompaniment Machine Learning Kevin P. Murphy, 2012-09-07 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

Exploring Machine Learning: A Beginners Perspective Dr. Raghuram Bhukya, 2021-04-20 Machine learning is a field of Artificial intelligence that provides algorithms those can learn and improve from experiences Machine learning algorithms are turned as integral parts of today's digital life Its applications include recommender systems targeted campaigns text categorization computer vision and auto security systems etc Machine learning also considered as essential part of data science due to its capability of providing predictive analytics capability in handling variety of data and suitability for big data applications Its capability for predictive analytics resulted of its general structure that is building statistical models out of training data In other hand easy scalability advantage of machine learning algorithms is making them to be suitable for big data applications The different types of learning algorithms includes supervised learning unsupervised learning reinforcement learning feature learning rule based learning Robot or expert system learning sparse dictionary and anomaly detection These learning algorithms can be realized by computing models artificial neural networks decision trees support vector machines regression analysis Bayesian networks Genetic algorithms and soft computing The familiar tools to implement machine learning algorithms include Python R Matlab Scala Clojure and Ruby Involving of such open source programming languages tools and social network communities makes the machine learning most progressing filed of computer science The machine learning life cycle includes defining project objectives explore the types and format modeling data to fit for machine learning algorithms deciding suitable machine learning model and implement and decide best result from data for decision making These days machine learning is observing great interest by the society and it has turned as one

of the significant responsibility of top level managers to transform their business in the profitable means by exploring its basic functionalities The world is at the sheer of realizing a situation where machines will work in agreement with human being to work together operation and advertise their services in a novel way which is targeted valuable and well versed In order to achieve this they can influence machine learning distinctiveness Dr Raghuram Bhukya Wireless Sensor Networks Ananthram Swami,Qing Zhao,Yao-Win Hong,Lang Tong,2007-11-12 A wireless sensor network WSN uses a number of autonomous devices to cooperatively monitor physical or environmental conditions via a wireless network Since its military beginnings as a means of battlefield surveillance practical use of this technology has extended to a range of civilian applications including environmental monitoring natural disaster prediction and relief health monitoring and fire detection Technological advancements coupled with lowering costs suggest that wireless sensor networks will have a significant impact on 21st century life The design of wireless sensor networks requires consideration for several disciplines such as distributed signal processing communications and cross layer design Wireless Sensor Networks Signal Processing and Communications focuses on the theoretical aspects of wireless sensor networks and offers readers signal processing and communication perspectives on the design of large scale networks It explains state of the art design theories and techniques to readers and places emphasis on the fundamental properties of large scale sensor networks Wireless Sensor Networks Signal Processing and Communications Approaches WSNs from a new angle distributed signal processing communication algorithms and novel cross layer design paradigms Applies ideas and illustrations from classical theory to an emerging field of WSN applications Presents important analytical tools for use in the design of application specific WSNs Wireless Sensor Networks will be of use to signal processing and communications researchers and practitioners in applying classical theory to network design It identifies research directions for senior undergraduate and graduate students and offers a rich bibliography for further reading and investigation

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