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Building Probabilistic Graphical Models with Python

Solve machine learning problems using probabilistic graphical models implemented in Python with real-world applications

Kiran R Karkera

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Building Probabilistic Graphical Models With Python

Karkera Kiran R

**Olaoluwa S Yaya, Peter O
Ohue, Oluranti A Afolabi**



Building Probabilistic Graphical Models With Python Karkera Kiran R:

Building Probabilistic Graphical Models with Python Kiran R. Karkera, 2014-06-14 This is a short practical guide that allows data scientists to understand the concepts of Graphical models and enables them to try them out using small Python code snippets without being too mathematically complicated If you are a data scientist who knows about machine learning and want to enhance your knowledge of graphical models such as Bayes network in order to use them to solve real world problems using Python libraries this book is for you This book is intended for those who have some Python and machine learning experience or are exploring the machine learning field [Mastering Probabilistic Graphical Models Using Python](#) Ankur Ankan, Abinash Panda, 2015-08-03 Master probabilistic graphical models by learning through real world problems and illustrative code examples in Python About This Book Gain in depth knowledge of Probabilistic Graphical Models Model time series problems using Dynamic Bayesian Networks A practical guide to help you apply PGMs to real world problems Who This Book Is For If you are a researcher or a machine learning enthusiast or are working in the data science field and have a basic idea of Bayesian Learning or Probabilistic Graphical Models this book will help you to understand the details of Graphical Models and use it in your data science problems This book will also help you select the appropriate model as well as the appropriate algorithm for your problem What You Will Learn Get to know the basics of Probability theory and Graph Theory Work with Markov Networks Implement Bayesian Networks Exact Inference Techniques in Graphical Models such as the Variable Elimination Algorithm Understand approximate Inference Techniques in Graphical Models such as Message Passing Algorithms Sample algorithms in Graphical Models Grasp details of Naive Bayes with real world examples Deploy PGMs using various libraries in Python Gain working details of Hidden Markov Models with real world examples In Detail Probabilistic Graphical Models is a technique in machine learning that uses the concepts of graph theory to compactly represent and optimally predict values in our data problems In real world problems it's often difficult to select the appropriate graphical model as well as the appropriate inference algorithm which can make a huge difference in computation time and accuracy Thus it is crucial to know the working details of these algorithms This book starts with the basics of probability theory and graph theory then goes on to discuss various models and inference algorithms All the different types of models are discussed along with code examples to create and modify them and also to run different inference algorithms on them There is a complete chapter devoted to the most widely used networks Naive Bayes Model and Hidden Markov Models HMMs These models have been thoroughly discussed using real world examples Style and approach An easy to follow guide to help you understand Probabilistic Graphical Models using simple examples and numerous code examples with an emphasis on more widely used models **Machine Learning in Java** Ashish Singh Bhatia, Bostjan Kaluza, 2018-11-28 Leverage the power of Java and its associated machine learning libraries to build powerful predictive models Key Features Solve predictive modeling problems using the most popular machine learning Java libraries Explore data

processing machine learning and NLP concepts using JavaML WEKA MALLET libraries Practical examples tips and tricks to help you understand applied machine learning in Java

Book Description As the amount of data in the world continues to grow at an almost incomprehensible rate being able to understand and process data is becoming a key differentiator for competitive organizations Machine learning applications are everywhere from self driving cars spam detection document search and trading strategies to speech recognition This makes machine learning well suited to the present day era of big data and Data Science The main challenge is how to transform data into actionable knowledge Machine Learning in Java will provide you with the techniques and tools you need You will start by learning how to apply machine learning methods to a variety of common tasks including classification prediction forecasting market basket analysis and clustering The code in this book works for JDK 8 and above the code is tested on JDK 11 Moving on you will discover how to detect anomalies and fraud and ways to perform activity recognition image recognition and text analysis By the end of the book you will have explored related web resources and technologies that will help you take your learning to the next level By applying the most effective machine learning methods to real world problems you will gain hands on experience that will transform the way you think about data What you will learn Discover key Java machine learning libraries Implement concepts such as classification regression and clustering Develop a customer retention strategy by predicting likely churn candidates Build a scalable recommendation engine with Apache Mahout Apply machine learning to fraud anomaly and outlier detection Experiment with deep learning concepts and algorithms Write your own activity recognition model for eHealth applications

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[Building Probabilistic Graphical Models with Python](#) Kiran R. Karkera, 2014 This is a short practical guide that allows data scientists to understand the concepts of Graphical models and enables them to try them out using small Python code snippets without being too mathematically complicated If you are a data scientist who knows about machine learning and want to enhance your knowledge of graphical models such as Bayes network in order to use them to solve real world problems using Python libraries this book is for you This book is intended for those who have some Python and machine learning experience or are exploring the machine learning field

[Building Probabilistic Graphical Models with Python](#) Kiran K. Karkera, 2015-05-18 With the increasing prominence in machine learning and data science applications probabilistic graphical models are a new tool that machine learning users can use to discover and analyze structures in complex problems The variety of tools and algorithms under the PGM framework extend to many domains such as natural language processing speech processing image processing and disease diagnosis You ve probably heard of graphical models before and you re keen to try out new landscapes in the

machine learning area This book gives you enough background information to get started on graphical models while keeping the math to a minimum Approach This is a short practical guide that allows data scientists to understand the concepts of Graphical models and enables them to try them out using small Python code snippets without being too mathematically complicated Who this book is for If you are a data scientist who knows about machine learning and want to enhance your knowledge of graphical models such as Bayes network in order to use them to solve real world problems using Python libraries this book is for you This book is intended for those who have some Python and machine learning experience or are exploring the machine learning field **Learning Probabilistic Graphical Models in R** David Bellot, 2016-04-29

Familiarize yourself with probabilistic graphical models through real world problems and illustrative code examples in R About This Book Predict and use a probabilistic graphical models PGM as an expert system Comprehend how your computer can learn Bayesian modeling to solve real world problems Know how to prepare data and feed the models by using the appropriate algorithms from the appropriate R package Who This Book Is For This book is for anyone who has to deal with lots of data and draw conclusions from it especially when the data is noisy or uncertain Data scientists machine learning enthusiasts engineers and those who curious about the latest advances in machine learning will find PGM interesting What You Will Learn Understand the concepts of PGM and which type of PGM to use for which problem Tune the model s parameters and explore new models automatically Understand the basic principles of Bayesian models from simple to advanced Transform the old linear regression model into a powerful probabilistic model Use standard industry models but with the power of PGM Understand the advanced models used throughout today s industry See how to compute posterior distribution with exact and approximate inference algorithms In Detail Probabilistic graphical models PGM also known as graphical models are a marriage between probability theory and graph theory Generally PGMs use a graph based representation Two branches of graphical representations of distributions are commonly used namely Bayesian networks and Markov networks R has many packages to implement graphical models We ll start by showing you how to transform a classical statistical model into a modern PGM and then look at how to do exact inference in graphical models Proceeding we ll introduce you to many modern R packages that will help you to perform inference on the models We will then run a Bayesian linear regression and you ll see the advantage of going probabilistic when you want to do prediction Next you ll master using R packages and implementing its techniques Finally you ll be presented with machine learning applications that have a direct impact in many fields Here we ll cover clustering and the discovery of hidden information in big data as well as two important methods PCA and ICA to reduce the size of big problems Style and approach This book gives you a detailed and step by step explanation of each mathematical concept which will help you build and analyze your own machine learning models and apply them to real world problems The mathematics is kept simple and each formula is explained thoroughly

Building Smarter Models by Combining Probabilistic Graphical Models and Neural Networks Olaoluwa S Yaya, Peter O

Ohue,Oluranti A Afolabi,2025-08-26 In an era where data drives innovation the boundaries of artificial intelligence are expanding rapidly Building Smarter Models by Combining Probabilistic Graphical Models and Neural Networks Hybrid PGM Deep Learning Techniques in R introduces readers to a groundbreaking approach that unifies probabilistic reasoning with the representational power of neural networks This book is designed for researchers data scientists and advanced practitioners who seek to push beyond the limitations of traditional machine learning Instead of treating probabilistic graphical models PGMs and deep learning as separate worlds it explores how these two paradigms can be harmoniously combined to build smarter more interpretable and more robust AI systems Starting with the fundamentals of PGMs and neural architectures the book gradually moves into hybrid modeling strategies where probabilistic inference complements neural representations Readers are guided through real world case studies implemented in R demonstrating how these hybrid models can be used for classification sequence modeling causal inference anomaly detection reinforcement learning and more The narrative style ensures that even complex mathematical and computational ideas are conveyed with clarity making it accessible to both academic audiences and industry professionals Alongside theory the book provides practical hands on examples code snippets and workflows in R allowing readers to replicate and extend the techniques for their own projects Whether you are exploring Bayesian deep learning probabilistic programming or uncertainty aware neural networks this book offers a comprehensive roadmap to building AI systems that are not only powerful but also trustworthy By the final chapters readers will understand how hybrid PGM neural network models can form the foundation for the next generation of AI systems that learn reason and generalize with intelligence that mirrors human cognition more closely than ever before This is not just a technical manual but a forward looking guide for anyone passionate about the future of artificial intelligence

Streaming Probabilistic Graphical Models with R Olaoluwa S Yaya,Peter O Ohue,Oluranti A Afolabi,2025-08-26 In a world where data flows endlessly and decisions must be made in real time traditional batch learning techniques fall short Hybrid Probabilistic Graphical Models for Streaming Data in R Theory and Applications offers readers a comprehensive exploration of how probabilistic graphical models PGMs can be adapted extended and applied to the challenges of streaming data environments This book guides readers from foundational principles to advanced methods presenting hybrid PGMs as powerful tools for modeling uncertainty dependency structures and dynamic relationships in data that never stops moving With a balance of rigorous theory and practical examples in R it shows how Bayesian networks Markov models and dynamic PGMs can be combined and optimized to handle high volume high velocity and high variety datasets Designed for both researchers and practitioners the book covers The core building blocks of PGMs and their hybrid extensions Techniques for real time inference parameter estimation and structure learning in streaming contexts Scalable algorithms for handling non stationary data concept drift and noise Practical implementations in R with reproducible code examples Applications across finance healthcare cybersecurity IoT and social media analytics Whether you are a data scientist statistician or researcher

this book provides the tools and insights to design models that adapt as data evolves Readers will not only master the mathematics behind hybrid PGMs but also gain hands on skills in applying them to real world problems using R In an era where information is both abundant and fleeting this book equips you to make sense of uncertainty one stream at a time

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