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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

Kiran R. Karkera



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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

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 is 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

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in image processing speech recognition language modeling You will discover how to detect anomalies and fraud and ways to perform activity recognition image recognition and text You will also work with examples such as weather forecasting disease diagnosis customer profiling generalization extreme machine learning and more By the end of this course you will have all the knowledge you need to perform deep learning on your system with varying complexity levels to apply them to your daily work The course provides you with highly practical content explaining deep learning with Java from the following Packt books Java Deep Learning Essentials Machine Learning in Java Neural Network Programming with Java Second Edition Style and approach This course aims to create a smooth learning path that will teach you how to effectively use deep learning with Java with other de facto components to get the most out of it Through this comprehensive course you ll learn the basics of predictive modelling and progress to solve real world problems and links neural network theory to their application

Machine Learning: End-to-End guide for Java developers Richard M. Reese,Jennifer L. Reese,Bostjan Kaluza,Dr. Uday Kamath,Krishna Choppella,2017-10-05 Develop Implement and Tuneup your Machine Learning applications using the power of Java programming About This Book Detailed coverage on key machine learning topics with an emphasis on both theoretical and practical aspects Address predictive modeling problems using the most popular machine learning Java libraries A comprehensive course covering a wide spectrum of topics such as machine learning and natural language through practical use cases Who This Book Is For This course is the right resource for anyone with some knowledge of Java programming who wants to get started with Data Science and Machine learning as quickly as possible If you want to gain meaningful insights from big data and develop intelligent applications using Java this course is also a must have What You Will Learn Understand key data analysis techniques centered around machine learning Implement Java APIs and various techniques such as classification clustering anomaly detection and more Master key Java machine learning libraries their functionality and various kinds of problems that can be addressed using each of them Apply machine learning to real world data for fraud detection recommendation engines text classification and human activity recognition Experiment with semi supervised learning and stream based data mining building high performing and real time predictive models Develop intelligent systems centered around various domains such as security Internet of Things social networking and more In Detail Machine Learning is one of the core area of Artificial Intelligence where computers are trained to self learn grow change and develop on their own without being explicitly programmed In this course we cover how Java is employed to build powerful machine learning models to address the problems being faced in the world of Data Science The course demonstrates complex data extraction and statistical analysis techniques supported by Java applying various machine learning methods exploring machine learning sub domains and exploring real world use cases such as recommendation systems fraud detection natural language processing and more using Java programming The course begins with an introduction to data science and basic data science tasks such as data collection data cleaning data analysis and data visualization The next section has a detailed

overview of statistical techniques covering machine learning neural networks and deep learning The next couple of sections cover applying machine learning methods using Java to a variety of chores including classifying predicting forecasting market basket analysis clustering stream learning active learning semi supervised learning probabilistic graph modeling text mining and deep learning The last section highlights real world test cases such as performing activity recognition developing image recognition text classification and anomaly detection The course includes premium content from three of our most popular books Java for Data Science Machine Learning in Java Mastering Java Machine Learning On completion of this course you will understand various machine learning techniques different machine learning java algorithms you can use to gain data insights building data models to analyze larger complex data sets and incubating applications using Java and machine learning algorithms in the field of artificial intelligence Style and approach This comprehensive course proceeds from being a tutorial to a practical guide providing an introduction to machine learning and different machine learning techniques exploring machine learning with Java libraries and demonstrating real world machine learning use cases using the Java platform

Machine Learning in Java AshishSingh Bhatia,Bostjan Kaluza,2018-11-28 Leverage the power of Java and its associated machine learning libraries to build powerful predictive models Key FeaturesSolve predictive modeling problems using the most popular machine learning Java libraries Explore data processing machine learning and NLP concepts using JavaML WEKA MALLET librariesPractical examples tips and tricks to help you understand applied machine learning in JavaBook 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 learnDiscover key Java machine learning librariesImplement concepts such as classification regression and clusteringDevelop a customer retention strategy by predicting likely churn candidatesBuild a scalable recommendation engine with Apache MahoutApply machine learning to fraud anomaly and outlier detectionExperiment with deep learning concepts and algorithmsWrite your own activity recognition model for eHealth applicationsWho this book is for If you want to

learn how to use Java's machine learning libraries to gain insight from your data this book is for you It will get you up and running quickly and provide you with the skills you need to successfully create, customize and deploy machine learning applications with ease You should be familiar with Java programming and some basic data mining concepts to make the most of this book but no prior experience with machine learning is required

The Routledge Companion to Artificial Intelligence in Architecture Imdat As, Prithwish Basu, 2021-05-05 Providing the most comprehensive source available this book surveys the state of the art in artificial intelligence AI as it relates to architecture This book is organized in four parts: theoretical foundations, tools and techniques, AI in research and AI in architectural practice It provides a framework for the issues surrounding AI and offers a variety of perspectives It contains 24 consistently illustrated contributions examining seminal work on AI from around the world including the United States, Europe and Asia It articulates current theoretical and practical methods, offers critical views on tools and techniques and suggests future directions for meaningful uses of AI technology Architects and educators who are concerned with the advent of AI and its ramifications for the design industry will find this book an essential reference

Machine Learning and Probabilistic Graphical Models for Decision Support Systems Kim Phuc Tran, 2022-10-13 This book presents recent advancements in research, a review of new methods and techniques and applications in decision support systems DSS with Machine Learning and Probabilistic Graphical Models which are very effective techniques in gaining knowledge from Big Data and in interpreting decisions It explores Bayesian network learning, Control Chart, Reinforcement Learning for multicriteria DSS, Anomaly Detection in Smart Manufacturing with Federated Learning, DSS in healthcare, DSS for supply chain management etc Researchers and practitioners alike will benefit from this book to enhance the understanding of machine learning Probabilistic Graphical Models and their uses in DSS in the context of decision making with uncertainty The real world case studies in various fields with guidance and recommendations for the practical applications of these studies are introduced in each chapter

Building Web Applications with Python and Neo4j Sumit Gupta, 2015-07-16 Py2neo is a simple and pragmatic Python library that provides access to the popular graph database Neo4j via its RESTful web service interface This brings with it a heavily refactored core, a cleaner API, better performance and some new idioms You will begin with licensing and installing Neo4j, learning the fundamentals of Cypher as a graph query language and exploring Cypher optimizations You will discover how to integrate with various Python frameworks such as Flask and its extensions Py2neo, Neomodel and Django Finally the deployment aspects of your Python based Neo4j applications in a production environment is also covered By sequentially working through the steps in each chapter you will quickly learn and master the various implementation details and integrations of Python and Neo4j helping you to develop your use cases more quickly

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