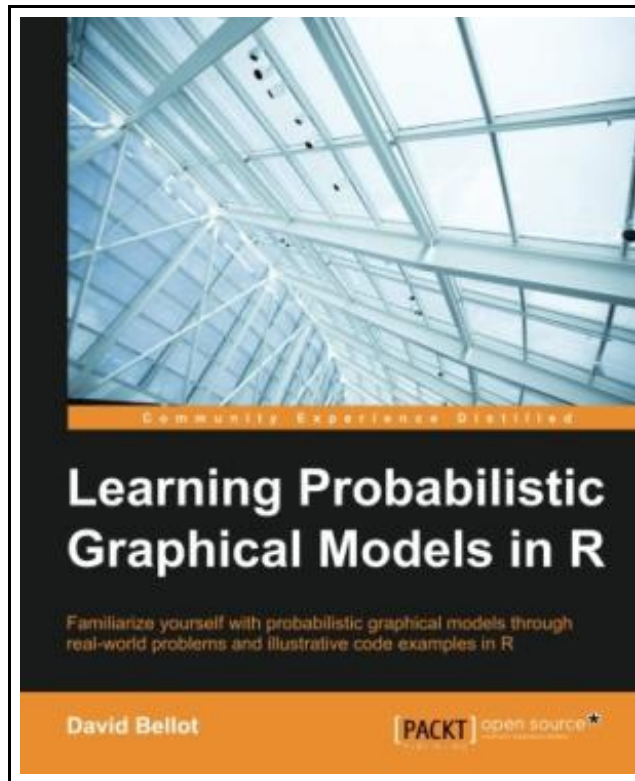# Learning Probabilistic Graphical Models in R (Paperback)

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Reviews

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LEARNING PROBABILISTIC GRAPHICAL MODELS IN R (PAPERBACK)

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Packt Publishing Limited, United Kingdom, 2016. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book ***** Print on Demand *****.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...

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