



How to build a recommendation system with R

Building a Recommendation System with R

Learn the most popular algorithms and how to implement them with R

Author: John D. Cook
Illustrations: John D. Cook

PACKET PUBLISHING

Building A Recommendation System With R

Dr. Sunil Kumar Chinnamgari



Building A Recommendation System With R:

Building a Recommendation System with R Suresh K. Gorakala, Michele Usuelli, 2015-09-29 Learn the art of building robust and powerful recommendation engines using R About This Book Learn to exploit various data mining techniques Understand some of the most popular recommendation techniques This is a step by step guide full of real world examples to help you build and optimize recommendation engines Who This Book Is For If you are a competent developer with some knowledge of machine learning and R and want to further enhance your skills to build recommendation systems then this book is for you What You Will Learn Get to grips with the most important branches of recommendation Understand various data processing and data mining techniques Evaluate and optimize the recommendation algorithms Prepare and structure the data before building models Discover different recommender systems along with their implementation in R Explore various evaluation techniques used in recommender systems Get to know about recommenderlab an R package and understand how to optimize it to build efficient recommendation systems In Detail A recommendation system performs extensive data analysis in order to generate suggestions to its users about what might interest them R has recently become one of the most popular programming languages for the data analysis Its structure allows you to interactively explore the data and its modules contain the most cutting edge techniques thanks to its wide international community This distinctive feature of the R language makes it a preferred choice for developers who are looking to build recommendation systems The book will help you understand how to build recommender systems using R It starts off by explaining the basics of data mining and machine learning Next you will be familiarized with how to build and optimize recommender models using R Following that you will be given an overview of the most popular recommendation techniques Finally you will learn to implement all the concepts you have learned throughout the book to build a recommender system Style and approach This is a step by step guide that will take you through a series of core tasks Every task is explained in detail with the help of practical examples

Mastering Predictive Analytics with R James D. Miller, Rui Miguel Forte, 2017-08-18 Master the craft of predictive modeling in R by developing strategy intuition and a solid foundation in essential concepts About This Book Grasping the major methods of predictive modeling and moving beyond black box thinking to a deeper level of understanding Leveraging the flexibility and modularity of R to experiment with a range of different techniques and data types Packed with practical advice and tips explaining important concepts and best practices to help you understand quickly and easily Who This Book Is For Although budding data scientists predictive modelers or quantitative analysts with only basic exposure to R and statistics will find this book to be useful the experienced data scientist professional wishing to attain master level status will also find this book extremely valuable This book assumes familiarity with the fundamentals of R such as the main data types simple functions and how to move data around Although no prior experience with machine learning or predictive modeling is required there are some advanced topics provided that will require more than novice exposure What You Will Learn Master

the steps involved in the predictive modeling process Grow your expertise in using R and its diverse range of packages Learn how to classify predictive models and distinguish which models are suitable for a particular problem Understand steps for tidying data and improving the performing metrics Recognize the assumptions strengths and weaknesses of a predictive model Understand how and why each predictive model works in R Select appropriate metrics to assess the performance of different types of predictive model Explore word embedding and recurrent neural networks in R Train models in R that can work on very large datasets In Detail R offers a free and open source environment that is perfect for both learning and deploying predictive modeling solutions With its constantly growing community and plethora of packages R offers the functionality to deal with a truly vast array of problems The book begins with a dedicated chapter on the language of models and the predictive modeling process You will understand the learning curve and the process of tidying data Each subsequent chapter tackles a particular type of model such as neural networks and focuses on the three important questions of how the model works how to use R to train it and how to measure and assess its performance using real world datasets How do you train models that can handle really large datasets This book will also show you just that Finally you will tackle the really important topic of deep learning by implementing applications on word embedding and recurrent neural networks By the end of this book you will have explored and tested the most popular modeling techniques in use on real world datasets and mastered a diverse range of techniques in predictive analytics using R Style and approach This book takes a step by step approach in explaining the intermediate to advanced concepts in predictive analytics Every concept is explained in depth supplemented with practical examples applicable in a real world setting

[R Machine Learning Projects](#) Dr. Sunil Kumar Chinnamgari, 2019-01-14 Master a range of machine learning domains with real world projects using TensorFlow for R H2O MXNet and more Key Features Master machine learning deep learning and predictive modeling concepts in R 3 5 Build intelligent end to end projects for finance retail social media and a variety of domains Implement smart cognitive models with helpful tips and best practices

Book Description R is one of the most popular languages when it comes to performing computational statistics statistical computing easily and exploring the mathematical side of machine learning With this book you will leverage the R ecosystem to build efficient machine learning applications that carry out intelligent tasks within your organization This book will help you test your knowledge and skills guiding you on how to build easily through to complex machine learning projects You will first learn how to build powerful machine learning models with ensembles to predict employee attrition Next you ll implement a joke recommendation engine and learn how to perform sentiment analysis on Amazon reviews You ll also explore different clustering techniques to segment customers using wholesale data In addition to this the book will get you acquainted with credit card fraud detection using autoencoders and reinforcement learning to make predictions and win on a casino slot machine By the end of the book you will be equipped to confidently perform complex tasks to build research and commercial projects for automated operations What you will learn Explore deep neural

networks and various frameworks that can be used in RDevelop a joke recommendation engine to recommend jokes that match users tastesCreate powerful ML models with ensembles to predict employee attritionBuild autoencoders for credit card fraud detectionWork with image recognition and convolutional neural networks Make predictions for casino slot machine using reinforcement learningImplement NLP techniques for sentiment analysis and customer segmentationWho this book is for If you re a data analyst data scientist or machine learning developer who wants to master machine learning concepts using R by building real world projects this is the book for you Each project will help you test your skills in implementing machine learning algorithms and techniques A basic understanding of machine learning and working knowledge of R programming is necessary to get the most out of this book

R Machine Learning By Example Raghav Bali,Dipanjana Sarkar,2016-03-31 Understand the fundamentals of machine learning with R and build your own dynamic algorithms to tackle complicated real world problems successfully About This Book Get to grips with the concepts of machine learning through exciting real world examples Visualize and solve complex problems by using power packed R constructs and its robust packages for machine learning Learn to build your own machine learning system with this example based practical guide Who This Book Is For If you are interested in mining useful information from data using state of the art techniques to make data driven decisions this is a go to guide for you No prior experience with data science is required although basic knowledge of R is highly desirable Prior knowledge in machine learning would be helpful but is not necessary What You Will Learn Utilize the power of R to handle data extraction manipulation and exploration techniques Use R to visualize data spread across multiple dimensions and extract useful features Explore the underlying mathematical and logical concepts that drive machine learning algorithms Dive deep into the world of analytics to predict situations correctly Implement R machine learning algorithms from scratch and be amazed to see the algorithms in action Write reusable code and build complete machine learning systems from the ground up Solve interesting real world problems using machine learning and R as the journey unfolds Harness the power of robust and optimized R packages to work on projects that solve real world problems in machine learning and data science In Detail Data science and machine learning are some of the top buzzwords in the technical world today From retail stores to Fortune 500 companies everyone is working hard to making machine learning give them data driven insights to grow their business With powerful data manipulation features machine learning packages and an active developer community R empowers users to build sophisticated machine learning systems to solve real world data problems This book takes you on a data driven journey that starts with the very basics of R and machine learning and gradually builds upon the concepts to work on projects that tackle real world problems You ll begin by getting an understanding of the core concepts and definitions required to appreciate machine learning algorithms and concepts Building upon the basics you will then work on three different projects to apply the concepts of machine learning following current trends and cover major algorithms as well as popular R packages in detail These projects have been neatly divided

into six different chapters covering the worlds of e commerce finance and social media which are at the very core of this data driven revolution Each of the projects will help you to understand explore visualize and derive insights depending upon the domain and algorithms Through this book you will learn to apply the concepts of machine learning to deal with data related problems and solve them using the powerful yet simple language R Style and approach The book is an enticing journey that starts from the very basics to gradually pick up pace as the story unfolds Each concept is first defined in the larger context of things succinctly followed by a detailed explanation of their application Each topic is explained with the help of a project that solves a real real world problem involving hands on work thus giving you a deep insight into the world of machine learning

Recommender Systems Handbook Francesco Ricci,Lior Rokach,Bracha Shapira,2015-11-17 This second edition of a well received text with 20 new chapters presents a coherent and unified repository of recommender systems major concepts theories methodologies trends and challenges A variety of real world applications and detailed case studies are included In addition to wholesale revision of the existing chapters this edition includes new topics including decision making and recommender systems reciprocal recommender systems recommender systems in social networks mobile recommender systems explanations for recommender systems music recommender systems cross domain recommendations privacy in recommender systems and semantic based recommender systems This multi disciplinary handbook involves world wide experts from diverse fields such as artificial intelligence human computer interaction information retrieval data mining mathematics statistics adaptive user interfaces decision support systems psychology marketing and consumer behavior Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas methods and techniques for developing more efficient cost effective and accurate recommender systems **R Deep Learning Essentials** Mark Hodnett,Joshua F. Wiley,2018-08-24 Implement neural network models in R 3 5 using TensorFlow Keras and MXNet Key Features Use R 3 5 for building deep learning models for computer vision and text Apply deep learning techniques in cloud for large scale processing Build train and optimize neural network models on a range of datasets Book Description Deep learning is a powerful subset of machine learning that is very successful in domains such as computer vision and natural language processing NLP This second edition of R Deep Learning Essentials will open the gates for you to enter the world of neural networks by building powerful deep learning models using the R ecosystem This book will introduce you to the basic principles of deep learning and teach you to build a neural network model from scratch As you make your way through the book you will explore deep learning libraries such as Keras MXNet and TensorFlow and create interesting deep learning models for a variety of tasks and problems including structured data computer vision text data anomaly detection and recommendation systems You ll cover advanced topics such as generative adversarial networks GANs transfer learning and large scale deep learning in the cloud In the concluding chapters you will learn about the theoretical concepts of deep learning projects such as model optimization overfitting and data augmentation together with other advanced topics By the

end of this book you will be fully prepared and able to implement deep learning concepts in your research work or projects

What you will learn

- Build shallow neural network prediction models
- Prevent models from overfitting the data to improve generalizability
- Explore techniques for finding the best hyperparameters for deep learning models
- Create NLP models using Keras and TensorFlow in R
- Use deep learning for computer vision tasks
- Implement deep learning tasks such as NLP recommendation systems and autoencoders

Who this book is for

This second edition of R Deep Learning Essentials is for aspiring data scientists, data analysts, machine learning developers, and deep learning enthusiasts who are well versed in machine learning concepts and are looking to explore the deep learning paradigm using R.

Fundamental understanding of the R language is necessary to get the most out of this book

R: Unleash Machine Learning Techniques Raghav Bali, Dipanjan Sarkar, Brett Lantz, Cory Lesmeister, 2016-10-24

Find out how to build smarter machine learning systems with R

Follow this three module course to become a more fluent machine learning practitioner

About This Book

Build your confidence with R and find out how to solve a huge range of data related problems

Get to grips with some of the most important machine learning techniques being used by data scientists and analysts across industries today

Don't just learn, apply your knowledge by following featured practical projects covering everything from financial modeling to social media analysis

Who This Book Is For

Aimed for intermediate to advanced people, especially data scientists who are already into the field of data science

What You Will Learn

- Get to grips with R techniques to clean and prepare your data for analysis and visualize your results
- Implement R machine learning algorithms from scratch and be amazed to see the algorithms in action
- Solve interesting real world problems using machine learning and R as the journey unfolds
- Write reusable code and build complete machine learning systems from the ground up
- Learn specialized machine learning techniques for text mining, social network data, big data, and more
- Discover the different types of machine learning models and learn which is best to meet your data needs and solve your analysis problems
- Evaluate and improve the performance of machine learning models
- Learn specialized machine learning techniques for text mining, social network data, big data, and more

In Detail

R is the established language of data analysts and statisticians around the world. And you shouldn't be afraid to use it. This Learning Path will take you through the fundamentals of R and demonstrate how to use the language to solve a diverse range of challenges through machine learning.

Accessible yet comprehensive, it provides you with everything you need to become more of a more fluent data professional and more confident with R.

In the first module, you'll get to grips with the fundamentals of R. This means you'll be taking a look at some of the details of how the language works before seeing how to put your knowledge into practice to build some simple machine learning projects that could prove useful for a range of real world problems.

For the following two modules, we'll begin to investigate machine learning algorithms in more detail. To build upon the basics, you'll get to work on three different projects that will test your skills. Covering some of the most important algorithms and featuring some of the most popular R packages, they're all focused on solving real problems in different areas ranging from finance to social media.

This Learning Path has been curated from three Packt products R Machine Learning By Example By Raghav Bali Dipanjan Sarkar Machine Learning with R Learning Second Edition By Brett Lantz Mastering Machine Learning with R By Cory Lesmeister Style and approach This is an enticing learning path that starts from the very basics to gradually pick up pace as the story unfolds Each concept is first defined in the larger context of things succinctly followed by a detailed explanation of their application Each topic is explained with the help of a project that solves a real world problem involving hands on work thus giving you a deep insight into the world of machine learning

Advanced Machine Learning with R Cory Lesmeister, Dr. Sunil Kumar Chinnamgari, 2019-05-20 Master machine learning techniques with real world projects that interface TensorFlow with R H2O MXNet and other languages Key Features Gain expertise in machine learning deep learning and other techniques Build intelligent end to end projects for finance social media and a variety of domains Implement multi class classification regression and clustering Book Description R is one of the most popular languages when it comes to exploring the mathematical side of machine learning and easily performing computational statistics This Learning Path shows you how to leverage the R ecosystem to build efficient machine learning applications that carry out intelligent tasks within your organization You ll tackle realistic projects such as building powerful machine learning models with ensembles to predict employee attrition You ll explore different clustering techniques to segment customers using wholesale data and use TensorFlow and Keras R for performing advanced computations You ll also be introduced to reinforcement learning along with its various use cases and models Additionally it shows you how some of these black box models can be diagnosed and understood By the end of this Learning Path you ll be equipped with the skills you need to deploy machine learning techniques in your own projects This Learning Path includes content from the following Packt products R Machine Learning Projects by Dr Sunil Kumar Chinnamgari Mastering Machine Learning with R Third Edition by Cory Lesmeister What you will learn Develop a joke recommendation engine to recommend jokes that match users tastes Build autoencoders for credit card fraud detection Work with image recognition and convolutional neural networks Make predictions for casino slot machine using reinforcement learning Implement NLP techniques for sentiment analysis and customer segmentation Produce simple and effective data visualizations for improved insights Use NLP to extract insights for text Implement tree based classifiers including random forest and boosted tree Who this book is for If you are a data analyst data scientist or machine learning developer this is an ideal Learning Path for you Each project will help you test your skills in implementing machine learning algorithms and techniques A basic understanding of machine learning and working knowledge of R programming is necessary to get the most out of this Learning Path

R Data Analysis Projects Gopi Subramanian, 2017-11-17 Get valuable insights from your data by building data analysis systems from scratch with R About This Book A handy guide to take your understanding of data analysis with R to the next level Real world projects that focus on problems in finance network analysis social media and more From data manipulation to analysis to visualization in R this book will teach you everything you need

to know about building end to end data analysis pipelines using R Who This Book Is For If you are looking for a book that takes you all the way through the practical application of advanced and effective analytics methodologies in R then this is the book for you A fundamental understanding of R and the basic concepts of data analysis is all you need to get started with this book What You Will Learn Build end to end predictive analytics systems in R Build an experimental design to gather your own data and conduct analysis Build a recommender system from scratch using different approaches Use and leverage RShiny to build reactive programming applications Build systems for varied domains including market research network analysis social media analysis and more Explore various R Packages such as RShiny ggplot recommenderlab dplyr and find out how to use them effectively Communicate modeling results using Shiny Dashboards Perform multi variate time series analysis prediction supplemented with sensitivity analysis and risk modeling In Detail R offers a large variety of packages and libraries for fast and accurate data analysis and visualization As a result it s one of the most popularly used languages by data scientists and analysts or anyone who wants to perform data analysis This book will demonstrate how you can put to use your existing knowledge of data analysis in R to build highly efficient end to end data analysis pipelines without any hassle You ll start by building a content based recommendation system followed by building a project on sentiment analysis with tweets You ll implement time series modeling for anomaly detection and understand cluster analysis of streaming data You ll work through projects on performing efficient market data research building recommendation systems and analyzing networks accurately all provided with easy to follow codes With the help of these real world projects you ll get a better understanding of the challenges faced when building data analysis pipelines and see how you can overcome them without compromising on the efficiency or accuracy of your systems The book covers some popularly used R packages such as dplyr ggplot2 RShiny and others and includes tips on using them effectively By the end of this book you ll have a better understanding of data analysis with R and be able to put your knowledge to practical use without any hassle Style and approach This book takes a unique learn as you do approach as you build on your understanding of data analysis progressively with each project This book is designed in a way that implementing each project will empower you with a unique skill set and enable you to implement the next project more confidently

Deep Learning with R for Beginners Mark Hodnett,Joshua F. Wiley,Yuxi (Hayden) Liu,Pablo Maldonado,2019-05-20 Explore the world of neural networks by building powerful deep learning models using the R ecosystem Key FeaturesGet to grips with the fundamentals of deep learning and neural networksUse R 3.5 and its libraries and APIs to build deep learning models for computer vision and text processingImplement effective deep learning systems in R with the help of end to end projectsBook Description Deep learning finds practical applications in several domains while R is the preferred language for designing and deploying deep learning models This Learning Path introduces you to the basics of deep learning and even teaches you to build a neural network model from scratch As you make your way through the chapters you ll explore deep learning libraries and understand how to create deep learning models for a variety of challenges

right from anomaly detection to recommendation systems The book will then help you cover advanced topics such as generative adversarial networks GANs transfer learning and large scale deep learning in the cloud in addition to model optimization overfitting and data augmentation Through real world projects you ll also get up to speed with training convolutional neural networks CNNs recurrent neural networks RNNs and long short term memory networks LSTMs in R By the end of this Learning Path you ll be well versed with deep learning and have the skills you need to implement a number of deep learning concepts in your research work or projects This Learning Path includes content from the following Packt products R Deep Learning Essentials Second Edition by Joshua F Wiley and Mark Hodnett R Deep Learning Projects by Yuxi Hayden Liu and Pablo Maldonado What you will learn Implement credit card fraud detection with autoencoders Train neural networks to perform handwritten digit recognition using MXNet Reconstruct images using variational autoencoders Explore the applications of autoencoder neural networks in clustering and dimensionality reduction Create natural language processing NLP models using Keras and TensorFlow in R Prevent models from overfitting the data to improve generalizability Build shallow neural network prediction models Who this book is for This Learning Path is for aspiring data scientists data analysts machine learning developers and deep learning enthusiasts who are well versed in machine learning concepts and are looking to explore the deep learning paradigm using R A fundamental understanding of R programming and familiarity with the basic concepts of deep learning are necessary to get the most out of this Learning Path

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