

# R Deep Learning

## Essentials

Second Edition

A step-by-step guide to building deep learning models using TensorFlow, Keras, and MXNet



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By Mark Hodnett and Joshua F. Wiley

# R Deep Learning Essentials

**Bharatendra Rai**



## **R Deep Learning Essentials:**

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 Deep Learning Essentials** Joshua F. Wiley, 2016-03-29 Build automatic classification and prediction models using unsupervised learning About This Book Harness the ability to build algorithms for unsupervised data using deep learning concepts with R Master the common problems faced such as overfitting of data anomalous datasets image recognition and performance tuning while building the models Build models relating to neural networks prediction and deep prediction Who This Book Is For This book caters to aspiring data scientists who are well versed with machine learning concepts with R and are looking to explore the deep learning paradigm using the packages available in R You should have a fundamental understanding of the R language and be comfortable with statistical algorithms and machine learning techniques but you do not need to be well versed with deep learning concepts What You Will Learn Set up the R package H2O to train deep learning models Understand the core concepts behind deep learning models Use Autoencoders to identify anomalous data or outliers Predict

or classify data automatically using deep neural networks Build generalizable models using regularization to avoid overfitting the training data

**In Detail** Deep learning is a branch of machine learning based on a set of algorithms that attempt to model high level abstractions in data by using model architectures With the superb memory management and the full integration with multi node big data platforms the H2O engine has become more and more popular among data scientists in the field of deep learning This book will introduce you to the deep learning package H2O with R and help you understand the concepts of deep learning We will start by setting up important deep learning packages available in R and then move towards building models related to neural networks prediction and deep prediction all of this with the help of real life examples After installing the H2O package you will learn about prediction algorithms Moving ahead concepts such as overfitting data anomalous data and deep prediction models are explained Finally the book will cover concepts relating to tuning and optimizing models

**Style and approach** This book takes a practical approach to showing you the concepts of deep learning with the R programming language We will start with setting up important deep learning packages available in R and then move towards building models related to neural network prediction and deep prediction and all of this with the help of real life examples

**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 Features** Get to grips with the fundamentals of deep learning and neural networks Use R 3.5 and its libraries and APIs to build deep learning models for computer vision and text processing Implement effective deep learning systems in R with the help of end to end projects

**Book 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 will 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 will 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 will 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 Machine Learning and Deep Learning Using Python and TensorFlow Venkata Reddy Konasani, Shailendra Kadre, 2021-04-29 Understand the principles and practices of machine learning and deep learning This hands on guide lays out machine learning and deep learning techniques and technologies in a style that is approachable using just the basic math required Written by a pair of experts in the field Machine Learning and Deep Learning Using Python and TensorFlow contains case studies in several industries including banking insurance e commerce retail and healthcare The book shows how to utilize machine learning and deep learning functions in today s smart devices and apps You will get download links for datasets code and sample projects referred to in the text Coverage includes Machine learning and deep learning concepts Python programming and statistics fundamentals Regression and logistic regression Decision trees Model selection and cross validation Cluster analysis Random forests and boosting Artificial neural networks TensorFlow and Keras Deep learning hyperparameters Convolutional neural networks Recurrent neural networks and long short term memory **Essential Kanji** P. G. O'Neill, 1987-11-01 Essential Kanji is an integrated course for learning to read and write the 2 000 basic Japanese characters It introduces the kanji that are now in everyday use a mastery of which makes it possible to read most modern Japanese Devised for either home or classroom use the book has been tested and refined by years of use in university classes taught by the author **R Machine Learning Essentials** Michele Usuelli, 2014-11-28 If you want to learn how to develop effective machine learning solutions to your business problems in R this book is for you It would be helpful to have a bit of familiarity with basic object oriented programming concepts but no prior experience is required *Miscellaneous Essays Relating to Indian Subjects* Brian Houghton Hodgson, 1880 Perfumery and Essential Oil Record, 1913 **Deep Learning Essentials** Anurag Bhardwaj, Wei Di, Jianing Wei, 2018-01-30 Get to grips with the essentials of deep learning by leveraging the power of Python Key Features Your one stop solution to get started with the essentials of deep learning and neural network modeling Train different kinds of neural networks to tackle various problems in Natural Language Processing computer vision speech recognition and more Covers popular Python libraries such as Tensorflow Keras and more along with tips on training deploying and optimizing your deep learning models in the best possible manner Book Description Deep Learning a trending topic in the field of Artificial Intelligence today and can be considered to be an advanced form of machine learning which is quite tricky to master This book will help you take your first steps in training efficient deep learning models and applying them in various practical scenarios You will model train and deploy different kinds of neural networks such as Convolutional Neural Network

Recurrent Neural Network and will see some of their applications in real world domains including computer vision natural language processing speech recognition and so on You will build practical projects such as chatbots implement reinforcement learning to build smart games and develop expert systems for image captioning and processing Popular Python library such as TensorFlow is used in this book to build the models This book also covers solutions for different problems you might come across while training models such as noisy datasets small datasets and more This book does not assume any prior knowledge of deep learning By the end of this book you will have a firm understanding of the basics of deep learning and neural network modeling along with their practical applications What you will learn Get to grips with the core concepts of deep learning and neural networks Set up deep learning library such as TensorFlow Fine tune your deep learning models for NLP and Computer Vision applications Unify different information sources such as images text and speech through deep learning Optimize and fine tune your deep learning models for better performance Train a deep reinforcement learning model that plays a game better than humans Learn how to make your models get the best out of your GPU or CPU Who this book is for Aspiring data scientists and machine learning experts who have limited or no exposure to deep learning will find this book to be very useful If you are looking for a resource that gets you up and running with the fundamentals of deep learning and neural networks this book is for you As the models in the book are trained using the popular Python based libraries such as Tensorflow and Keras it would be useful to have sound programming knowledge of Python

Leadership, Management, and Innovation in R&D Project Teams Leon Mann,2005-03-30 In today s knowledge driven business environment research and development teams face particular challenges as their purpose is to discover and or develop new concepts products or processes the pressure to perform is intense A year long study of 58 R they set clear goals and tasks they establish an environment of mutual trust and respect and they are skilled politicians who liaise with external stakeholders including customers senior managers service providers and regulators to gain essential support Integrating insights from the fields of technology management social psychology and organizational behavior Leon Mann and his colleagues present recommendations to assist organizations and management in developing strong team leaders and building innovative teams

Fundamentals of Learning and Memory John P. Houston,1986 *Machine Learning Essentials* Alboukadel Kassambara,2018-03-10 Discovering knowledge from big multivariate data recorded every days requires specialized machine learning techniques This book presents an easy to use practical guide in R to compute the most popular machine learning methods for exploring real word data sets as well as for building predictive models The main parts of the book include A Unsupervised learning methods to explore and discover knowledge from a large multivariate data set using clustering and principal component methods You will learn hierarchical clustering k means principal component analysis and correspondence analysis methods B Regression analysis to predict a quantitative outcome value using linear regression and non linear regression strategies C Classification techniques to predict a qualitative outcome value using logistic regression

discriminant analysis naive bayes classifier and support vector machines D Advanced machine learning methods to build robust regression and classification models using k nearest neighbors methods decision tree models ensemble methods bagging random forest and boosting E Model selection methods to select automatically the best combination of predictor variables for building an optimal predictive model These include best subsets selection methods stepwise regression and penalized regression ridge lasso and elastic net regression models We also present principal component based regression methods which are useful when the data contain multiple correlated predictor variables F Model validation and evaluation techniques for measuring the performance of a predictive model G Model diagnostics for detecting and fixing a potential problems in a predictive model The book presents the basic principles of these tasks and provide many examples in R This book offers solid guidance in data mining for students and researchers Key features Covers machine learning algorithm and implementation Key mathematical concepts are presented Short self contained chapters with practical examples [R Machine Learning Essentials](#) Michele Usuelli,2014-11-28 If you want to learn how to develop effective machine learning solutions to your business problems in R this book is for you It would be helpful to have a bit of familiarity with basic object oriented programming concepts but no prior experience is required *Intercollegian* ,1930 *The Essential Thing* Arthur Hodges,1912 **Advanced Deep Learning with R** Bharatendra Rai,2019-12-17 Discover best practices for choosing building training and improving deep learning models using Keras R and TensorFlow R libraries Key FeaturesImplement deep learning algorithms to build AI models with the help of tips and tricksUnderstand how deep learning models operate using expert techniquesApply reinforcement learning computer vision GANs and NLP using a range of datasetsBook Description Deep learning is a branch of machine learning based on a set of algorithms that attempt to model high level abstractions in data Advanced Deep Learning with R will help you understand popular deep learning architectures and their variants in R along with providing real life examples for them This deep learning book starts by covering the essential deep learning techniques and concepts for prediction and classification You will learn about neural networks deep learning architectures and the fundamentals for implementing deep learning with R The book will also take you through using important deep learning libraries such as Keras R and TensorFlow R to implement deep learning algorithms within applications You will get up to speed with artificial neural networks recurrent neural networks convolutional neural networks long short term memory networks and more using advanced examples Later you ll discover how to apply generative adversarial networks GANs to generate new images autoencoder neural networks for image dimension reduction image de noising and image correction and transfer learning to prepare define train and model a deep neural network By the end of this book you will be ready to implement your knowledge and newly acquired skills for applying deep learning algorithms in R through real world examples What you will learnLearn how to create binary and multi class deep neural network modelsImplement GANs for generating new imagesCreate autoencoder neural networks for image dimension reduction

image de noising and image correction Implement deep neural networks for performing efficient text classification Learn to define a recurrent convolutional network model for classification in Keras Explore best practices and tips for performance optimization of various deep learning models Who this book is for This book is for data scientists machine learning practitioners deep learning researchers and AI enthusiasts who want to develop their skills and knowledge to implement deep learning techniques and algorithms using the power of R A solid understanding of machine learning and working knowledge of the R programming language are required *The Essential Rock Discography* Martin Charles Strong, 2006 Covers British and American artists and groups including a biography or history and chronological discographical listings in each entry *Harvard Alumni Bulletin*, 1912 *Hands-On Deep Learning Architectures with Python* Yuxi (Hayden) Liu, Saransh Mehta, 2019-04-30 Concepts tools and techniques to explore deep learning architectures and methodologies Key Features Explore advanced deep learning architectures using various datasets and frameworks Implement deep architectures for neural network models such as CNN RNN GAN and many more Discover design patterns and different challenges for various deep learning architectures Book Description Deep learning architectures are composed of multilevel nonlinear operations that represent high level abstractions this allows you to learn useful feature representations from the data This book will help you learn and implement deep learning architectures to resolve various deep learning research problems *Hands On Deep Learning Architectures with Python* explains the essential learning algorithms used for deep and shallow architectures Packed with practical implementations and ideas to help you build efficient artificial intelligence systems AI this book will help you learn how neural networks play a major role in building deep architectures You will understand various deep learning architectures such as AlexNet VGG Net GoogleNet with easy to follow code and diagrams In addition to this the book will also guide you in building and training various deep architectures such as the Boltzmann mechanism autoencoders convolutional neural networks CNNs recurrent neural networks RNNs natural language processing NLP GAN and more all with practical implementations By the end of this book you will be able to construct deep models using popular frameworks and datasets with the required design patterns for each architecture You will be ready to explore the potential of deep architectures in today's world What you will learn Implement CNNs RNNs and other commonly used architectures with Python Explore architectures such as VGGNet AlexNet and GoogLeNet Build deep learning architectures for AI applications such as face and image recognition fraud detection and many more Understand the architectures and applications of Boltzmann machines and autoencoders with concrete examples Master artificial intelligence and neural network concepts and apply them to your architecture Understand deep learning architectures for mobile and embedded systems Who this book is for If you're a data scientist machine learning developer engineer or deep learning practitioner or are curious about AI and want to upgrade your knowledge of various deep learning architectures this book will appeal to you You are expected to have some knowledge of statistics and machine learning algorithms to get the best out of this book *Zion's Herald*, 1907

## The Enigmatic Realm of **R Deep Learning Essentials**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **R Deep Learning Essentials** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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