

```
In [1]: from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score, precision_score, recall_score, f1_score
iris_data = load_iris()
X = iris_data.data
y = iris_data.target
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
model = RandomForestClassifier()
model.fit(X_train, y_train)
predictions = model.predict(X_test)
accuracy = accuracy_score(y_test, predictions)
precision = precision_score(y_test, predictions, average='macro')
recall = recall_score(y_test, predictions, average='macro')
f1 = f1_score(y_test, predictions, average='macro')
print("Accuracy:", accuracy)
print("Precision:", precision)
print("Recall:", recall)
print("F1-score:", f1)
```

```
Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-score: 1.0
```

Applied Predictive Modeling

Jason Brownlee



Applied Predictive Modeling:

Applied Predictive Modeling Max Kuhn, Kjell Johnson, 2013-05-17 Applied Predictive Modeling covers the overall predictive modeling process beginning with the crucial steps of data preprocessing data splitting and foundations of model tuning The text then provides intuitive explanations of numerous common and modern regression and classification techniques always with an emphasis on illustrating and solving real data problems The text illustrates all parts of the modeling process through many hands on real life examples and every chapter contains extensive R code for each step of the process This multi purpose text can be used as an introduction to predictive models and the overall modeling process a practitioner s reference handbook or as a text for advanced undergraduate or graduate level predictive modeling courses To that end each chapter contains problem sets to help solidify the covered concepts and uses data available in the book s R package This text is intended for a broad audience as both an introduction to predictive models as well as a guide to applying them Non mathematical readers will appreciate the intuitive explanations of the techniques while an emphasis on problem solving with real data across a wide variety of applications will aid practitioners who wish to extend their expertise Readers should have knowledge of basic statistical ideas such as correlation and linear regression analysis While the text is biased against complex equations a mathematical background is needed for advanced topics

Applied Predictive Modeling Steven Taylor, 2020-07-14 Applied Predictive Modeling Predictive modeling uses statistics in order to predict outcomes However predictive modeling can be applied to future and to any other kind of unknown event regardless of when it happened When it comes to the applications of predictive modeling techniques are used in various fields including algorithmic trading uplift modeling archaeology health care customer relationship management and many others This book covers the predictive modeling process with fundamental steps of the process data preprocessing data splitting and crucial steps of model tuning and improving model performance Further the book will introduce you to the most common classification and regression techniques including logistic regression which is widely used when it comes to the finding the probability of event success or event failure You will get to know the common predictive modeling techniques as well such as stepwise regression polynomial regression and ridge regression which will help you when you are dealing with the data that suffers from very common multicollinearity where independent variables are highly correlated The text then provides fundamental steps to effective predictive modeling In the second chapter you will learn how to build your own predictive model with logistic regression and Python You will find data sets as well as corresponding codes One of the crucial predictive modeling steps is model tuning so you will learn some common techniques used in order to improve your model performance You will get to know how to tune the parameters commonly used to increase the overall predictive power Predictive modeling comes with a few obstacles and challenges like class imbalance Imbalanced classes commonly put the accuracy of the model out of business but you will learn how to properly handle class imbalance which will significantly improve the accuracy of

your model The book is multi purpose focused on to predictive modeling process and predictive modeling techniques so it will be of great help for those who are interested in predictive modeling techniques and applications So it is the right time to simplify the analysis boost productivity as well as save time The book will be your companion on your journey towards highly accurate predictive models What you will learn in Applied Predictive Modeling Most common predictive modeling techniques Types of regression models The overall predictive modeling process Fundamental steps to effective and highly accurate predictive modeling How to build predictive model with logistic regression with code listings How to build predictive model using Python How to enhance your model performance Parameters for increasing the overall predictive power How to handle class imbalance Common causes of poor model performance Get this book now and learn more about Applied Predictive Modeling

Applied Predictive Modeling Max Kuhn,2016 This is a book on data analysis with a specific focus on the practice of predictive modeling which is associated with machine learning pattern recognition and data mining The practice of predictive modeling defines the process of developing a model in a way that we can understand and quatify the model s prediction accuracy on future

Applied Predictive Analytics Dean Abbott,2014-03-31 Learn the art and science of predictive analytics techniques that get results Predictive analytics is what translates big data into meaningful usable business information Written by a leading expert in the field this guide examines the science of the underlying algorithms as well as the principles and best practices that govern the art of predictive analytics It clearly explains the theory behind predictive analytics teaches the methods principles and techniques for conducting predictive analytics projects and offers tips and tricks that are essential for successful predictive modeling Hands on examples and case studies are included The ability to successfully apply predictive analytics enables businesses to effectively interpret big data essential for competition today This guide teaches not only the principles of predictive analytics but also how to apply them to achieve real pragmatic solutions Explains methods principles and techniques for conducting predictive analytics projects from start to finish Illustrates each technique with hands on examples and includes as series of in depth case studies that apply predictive analytics to common business scenarios A companion website provides all the data sets used to generate the examples as well as a free trial version of software Applied Predictive Analytics arms data and business analysts and business managers with the tools they need to interpret and capitalize on big data

Applying Predictive Analytics Richard V. McCarthy,Mary M. McCarthy,Wendy Ceccucci,Leila Halawi,2019-03-12 This textbook presents a practical approach to predictive analytics for classroom learning It focuses on using analytics to solve business problems and compares several different modeling techniques all explained from examples using the SAS Enterprise Miner software The authors demystify complex algorithms to show how they can be utilized and explained within the context of enhancing business opportunities Each chapter includes an opening vignette that provides real life example of how business analytics have been used in various aspects of organizations to solve issue or improve their results A running case provides an example of a how to build

and analyze a complex analytics model and utilize it to predict future outcomes *Projektsteuerung in der Produktentwicklung mittels Predictive Analytics* Christian Dölle, 2018-02-14 Um im internationalen Wettbewerb bestehen zu können ist es vor allem für Unternehmen aus Hochlohnländern wichtig anforderungsgerechte Produkte am Markt zu platzieren. In diesem Zusammenhang gewinnt die effiziente und effektive Durchführung von Entwicklungsprojekten zunehmend an Bedeutung. Im Rahmen der Arbeit eine Methodik entwickelt, welche durch die Anwendung eines Predictive Analytics Modells die Implementierung von präventiven Steuerungsmaßnahmen zur Einhaltung der gesetzten Zeit, Kosten und Qualitätsziele unterstützt. Proaktives ereignisgesteuertes Geschäftsprozessmanagement Julian Krumeich, 2018 Die Digitalisierung ermöglicht feingranulare Datenströme in betrieblichen Abläufen zu erfassen. Mittels moderner Analyseverfahren wie dem Complex Event Processing (CEP) können relevante Ereignismuster hieraus identifiziert und korrespondierende Maßnahmen unverzüglich initiiert werden. Vielversprechend erweist sich zukünftige Geschäftsereignisse zu prognostizieren und hierdurch eine proaktive Steuerung von Unternehmensabläufen zu realisieren. Hierzu muss eine Kombination aus CEP und prädiagnostischen Analysen in die operativen Entscheidungs- und Steuerungsprozesse verankert werden. Dies bedingt einen Veränderungsprozess in Unternehmen und somit die Integration in das Geschäftsprozessmanagement. Das von Julian Krumeich konstruierte Referenzmodell dient als Gestaltungsvorlage für die Realisierung eines proaktiven ereignisgesteuerten Geschäftsprozessmanagements. Das Modell umfasst Komponenten zur Modellierung von komplexen Ereignismustern sowie deren automatisierten Transformation in EPL-Spezifikationen. Zudem ermöglicht ein methodisches Vorgehen Prognosepotenziale in Geschäftsprozessen zu identifizieren, um auf dieser Grundlage reaktive Prozesse durch die Einbettung proaktiver Bestandteile in proaktive Prozesse zu transformieren. Die Praxistauglichkeit des Referenzmodells wird anhand eines Anwendungsbeispiels aus der Stahlproduktion validiert und die Umsetzbarkeit durch Prototypen unterstrichen. Dieses Buch erweist sich nicht nur für Wissenschaftler von Interesse, sondern dient auch Lesern aus der Unternehmenspraxis als Impulsgeber zur Bewältigung der notwendigen Transformation ihrer Geschäftsprozesse. Spatial Predictive Modeling with R Jin Li, 2022-02-22 Spatial predictive modeling (SPM) is an emerging discipline in applied sciences playing a key role in the generation of spatial predictions in various disciplines. SPM refers to preparing relevant data, developing optimal predictive models based on point data, and then generating spatial predictions. This book aims to systematically introduce the entire process of SPM as a discipline. The process contains data acquisition, spatial predictive methods, and variable selection, parameter optimization, accuracy assessment, and the generation and visualization of spatial predictions, where spatial predictive methods are from geostatistics, modern statistics, and machine learning. The key features of this book are: Systematically introducing major components of SPM process; Novel hybrid methods: 228 hybrids plus numerous variants of modern statistical methods or machine learning methods with mathematical and/or univariate geostatistical methods; Novel predictive accuracy-based variable selection techniques for spatial predictive methods; Predictive accuracy-based parameter model optimization.

Reproducible examples for SPM of various data types in R This book provides guidelines recommendations and reproducible examples for developing optimal predictive models by considering various components and associated factors for quality improved spatial predictions It provides valuable tools for researchers modelers and university students not only in SPM field but also in other predictive modeling fields Dr Li has produced over 100 various publications in spatial predictive modelling statistical computing ecological and environmental modelling and ecology developed a number of hybrid methods for SPM and published four R packages for variable selections as well as SPM

Data Preparation for Machine Learning Jason Brownlee, 2020-06-30 Data preparation involves transforming raw data in to a form that can be modeled using machine learning algorithms Cut through the equations Greek letters and confusion and discover the specialized data preparation techniques that you need to know to get the most out of your data on your next project Using clear explanations standard Python libraries and step by step tutorial lessons you will discover how to confidently and effectively prepare your data for predictive modeling with machine learning

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 *Applying Predictive Analytics Within the Service Sector* Sahu, Rajendra,Dash, Manoj,Kumar, Anil,2017-02-07 Value creation is a prime concern for any contemporary business This can be accomplished through the incorporation of various techniques and processes such as the integration of analytics to improve business functions *Applying Predictive Analytics Within the Service Sector* is a pivotal reference source for the latest innovative perspectives on the incorporation of analysis techniques to enhance business performance Examining a wide range of relevant topics such as alternative clustering recommender systems and social media tools this book is ideally designed for researchers academics students professionals and practitioners seeking scholarly material on business improvement in the service industry *Applying Data Science* Arthur K. Kordon,2020-09-12 This book offers practical guidelines on creating value from the application of data science based on selected artificial intelligence methods In Part I the author introduces a problem driven approach to implementing AI based data science and offers practical explanations of key technologies machine learning deep learning decision trees and random forests evolutionary computation swarm intelligence and intelligent agents In Part II he describes the main steps in creating AI based data science solutions for business problems including problem knowledge acquisition data preparation data analysis model development and model deployment lifecycle Finally in Part III the author illustrates the power of AI based data science with successful applications in manufacturing and business He also shows how to introduce this technology in a business setting and guides the reader on how to build the appropriate infrastructure and develop the required skillsets The book is ideal for data scientists who will implement the proposed methodology and techniques in their projects It is also intended to help business leaders and entrepreneurs who want to create competitive advantage by using AI based data science as well as academics and students looking for an industrial view of this discipline **Imbalanced Classification with Python** Jason Brownlee,2020-01-14 Imbalanced classification are those classification tasks where the distribution of examples across the classes is not equal Cut through the equations Greek letters and confusion and discover the specialized techniques data preparation techniques learning algorithms and performance metrics that you need to know Using clear explanations standard Python libraries and step by step tutorial lessons you will discover how to confidently develop robust models for your own imbalanced classification

projects *Mastering Predictive Analytics with R* Rui Miguel Forte, 2015-06-17 R offers a free and open source environment that is perfect for both learning and deploying predictive modeling solutions in the real world With its constantly growing community and plethora of packages R offers the functionality to deal with a truly vast array of problems This book is designed to be both a guide and a reference for moving beyond the basics of predictive modeling The book begins with a dedicated chapter on the language of models and the predictive modeling process 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 data sets By the end of this book you will have explored and tested the most popular modeling techniques in use on real world data sets and mastered a diverse range of techniques in predictive analytics Angewandte empirische Methoden in Finance & Accounting Matthias

Gehrke, 2022-08-01 Dieses Buch stellt die wichtigsten empirischen Verfahren für eine Anwendung im Bereich Finance Accounting sowie Risk Management dar Der Fokus wurde auf die durchgängige konkrete Umsetzung an Anwendungsbeispielen unter Nutzung der frei verfügbaren Statistiksoftware R gelegt und durch die Darstellung wichtiger theoretischer Aspekte ergänzt Ausführliche kapitelbezogene Literaturhinweise zu anderen Fachbüchern und Journalbeiträgen ermöglichen es die Theorie und die Anwendung bei Bedarf zu vertiefen Die Leserinnen und Leser werden Schritt für Schritt an die verschiedenen wichtigen Aspekte für die einzelnen Fragestellungen herangeführt und über umfangreiche Anwendungsbeispiele in der Umsetzung begleitet Theorie und praktische Umsetzung finden im Wechsel statt Für die Neuauflage wurden die Kapitel an einzelnen Stellen erweitert und aktualisiert Auch wurden weitere Themen wie kausale Modellierung Endogenität von Variablen Instrumentvariablenregression und logistische Panelregression ergänzt

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research through a practical presentation of theory and practice *Hands-On Machine Learning with R* Brad Boehmke, Brandon M. Greenwell, 2019-11-07 Hands on Machine Learning with R provides a practical and applied approach to learning and developing intuition into today's most popular machine learning methods This book serves as a practitioner's guide to the machine learning process and is meant to help the reader learn to apply the machine learning stack within R which includes using various R packages such as glmnet h2o ranger xgboost keras and others to effectively model and gain insight from their data The book favors a hands on approach providing an intuitive understanding of machine learning concepts through concrete examples and just a little bit of theory Throughout this book the reader will be exposed to the entire machine learning process including feature engineering resampling hyperparameter tuning model evaluation and interpretation The reader will be exposed to powerful algorithms such as regularized regression random forests gradient boosting machines deep learning generalized low rank models and more By favoring a hands on approach and using real word data the reader will gain an intuitive understanding of the architectures and engines that drive these algorithms and packages understand when and how to tune the various hyperparameters and be able to interpret model results By the end of this book the reader should have a firm grasp of R's machine learning stack and be able to implement a systematic approach for producing high quality modeling results Features Offers a practical and applied introduction to the most popular machine learning methods Topics covered include feature engineering resampling deep learning and more Uses a hands on approach and real world data *Valorization of Biomass to Value-Added Commodities* Michael O. Daramola, Augustine O. Ayeni, 2020-04-21 This book presents the most up to date technologies for the transformation of biomass into valuable fuels chemicals materials and products It provides comprehensive coverage of the characterization and fractionation of various types of biomass and details the many challenges that are currently encountered during this process Divided into two sections this book discusses timely topics such as the characterization of biomass feedstock pretreatment and fractionation of biomass and describes the process for conversion of biomass to value added commodities The authors bring biomass transformational strategies that are yet to be explored to the forefront making this innovative book useful for graduate students and researchers in academia government and industry **Data Mining** Mehmed Kantardzic, 2019-10-21 Presents the latest techniques for analyzing and extracting information from large amounts of data in high dimensional data spaces The revised and updated third edition of Data Mining contains in one volume an introduction to a systematic approach to the analysis of large data sets that integrates results from disciplines such as statistics artificial intelligence data bases pattern recognition and computer visualization Advances in deep learning technology have opened an entire new spectrum of applications The author a noted expert on the topic explains the basic concepts models and methodologies that have been developed in recent years This new edition introduces and expands on many topics as well as providing revised sections on software tools and data mining applications Additional changes include an updated list of references for further study and an

extended list of problems and questions that relate to each chapter This third edition presents new and expanded information that Explores big data and cloud computing Examines deep learning Includes information on convolutional neural networks CNN Offers reinforcement learning Contains semi supervised learning and S3VM Reviews model evaluation for unbalanced data Written for graduate students in computer science computer engineers and computer information systems professionals the updated third edition of Data Mining continues to provide an essential guide to the basic principles of the technology and the most recent developments in the field

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