

Pandas vs R Cheatsheet

Setup

Import and package installation



install pandas in R install pandas in R	library(pandas) install.packages("pandas") install.packages("pandas") install.packages("pandas")	install pandas in R install pandas in R
pip install pandas	pip install pandas	pip install pandas
conda install pandas	conda install pandas	conda install pandas

Data Structures

Pandas Series vs R Array/Vector/matrix/dataframe



R: 1D array (vector)	R: 2D array (matrix)	Pandas: Series (1D array)
R: 2D array (matrix)	R: 3D array (array)	Pandas: DataFrame (2D array)
R: 1D array (vector)	R: 2D array (matrix)	Pandas: Series (1D array)
R: 2D array (matrix)	R: 3D array (array)	Pandas: DataFrame (2D array)

Read

Import Data in Pandas



R: read.csv()	R: read.csv()	Pandas: read_csv()
R: read.csv()	R: read.csv()	Pandas: read_csv()
R: read.csv()	R: read.csv()	Pandas: read_csv()
R: read.csv()	R: read.csv()	Pandas: read_csv()

Write

Export Data in Pandas



R: write.csv()	R: write.csv()	Pandas: to_csv()
R: write.csv()	R: write.csv()	Pandas: to_csv()
R: write.csv()	R: write.csv()	Pandas: to_csv()
R: write.csv()	R: write.csv()	Pandas: to_csv()

Inspect Data

Statistical summary and overview of the data



R: summary()	R: summary()	Pandas: describe()
R: summary()	R: summary()	Pandas: describe()
R: summary()	R: summary()	Pandas: describe()
R: summary()	R: summary()	Pandas: describe()

Select

Select data by index, by label, get values



R: data[data == 1]	R: data[data == 1]	Pandas: data[data == 1]
R: data[data == 1]	R: data[data == 1]	Pandas: data[data == 1]
R: data[data == 1]	R: data[data == 1]	Pandas: data[data == 1]
R: data[data == 1]	R: data[data == 1]	Pandas: data[data == 1]

Add rows/columns

Add new columns and rows



R: data\$new_col = 1:10	R: data\$new_col = 1:10	Pandas: data['new_col'] = 1:10
R: data\$new_col = 1:10	R: data\$new_col = 1:10	Pandas: data['new_col'] = 1:10
R: data\$new_col = 1:10	R: data\$new_col = 1:10	Pandas: data['new_col'] = 1:10
R: data\$new_col = 1:10	R: data\$new_col = 1:10	Pandas: data['new_col'] = 1:10

Drop rows/columns/axis

Drop data from DataFrame



R: data[1:10]	R: data[1:10]	Pandas: data[1:10]
R: data[1:10]	R: data[1:10]	Pandas: data[1:10]
R: data[1:10]	R: data[1:10]	Pandas: data[1:10]
R: data[1:10]	R: data[1:10]	Pandas: data[1:10]

Sort values/index

Sorting and reindexing in Pandas and R



R: sort()	R: sort()	Pandas: sort_values()
R: sort()	R: sort()	Pandas: sort_values()
R: sort()	R: sort()	Pandas: sort_values()
R: sort()	R: sort()	Pandas: sort_values()

Filter

Filter data based on multiple criteria



R: data[data == 1]	R: data[data == 1]	Pandas: data[data == 1]
R: data[data == 1]	R: data[data == 1]	Pandas: data[data == 1]
R: data[data == 1]	R: data[data == 1]	Pandas: data[data == 1]
R: data[data == 1]	R: data[data == 1]	Pandas: data[data == 1]

Group by

Group by and aggregate data



R: data %>% group_by()	R: data %>% group_by()	Pandas: data.groupby()
R: data %>% group_by()	R: data %>% group_by()	Pandas: data.groupby()
R: data %>% group_by()	R: data %>% group_by()	Pandas: data.groupby()
R: data %>% group_by()	R: data %>% group_by()	Pandas: data.groupby()

Convert

Convert to data string, number



R: as.character()	R: as.character()	Pandas: data.astype('string')
R: as.character()	R: as.character()	Pandas: data.astype('string')
R: as.character()	R: as.character()	Pandas: data.astype('string')
R: as.character()	R: as.character()	Pandas: data.astype('string')



About Pandas R

**Wouter van Atteveldt, Damian
Trilling, Carlos Arcila Calderon**



About Pandas R:

An Introduction to R and Python for Data Analysis Taylor R. Brown, 2023-06-28 An Introduction to R and Python for Data Analysis helps teach students to code in both R and Python simultaneously As both R and Python can be used in similar manners it is useful and efficient to learn both at the same time helping lecturers and students to teach and learn more save time whilst reinforcing the shared concepts and differences of the systems This tandem learning is highly useful for students helping them to become literate in both languages and develop skills which will be handy after their studies This book presumes no prior experience with computing and is intended to be used by students from a variety of backgrounds The side by side formatting of this book helps introductory graduate students quickly grasp the basics of R and Python with the exercises providing helping them to teach themselves the skills they will need upon the completion of their course as employers now ask for competency in both R and Python Teachers and lecturers will also find this book useful in their teaching providing a singular work to help ensure their students are well trained in both computer languages All data for exercises can be found here https://github.com/tbrown122387/r_and_python_book/tree/master/data Instructors can access the solutions manual via the book's website Key features Teaches R and Python in a side by side way Examples are tailored to aspiring data scientists and statisticians not software engineers Designed for introductory graduate students Does not assume any mathematical background *Learning R and Python for Business School Students* Yuxing Yan, 2022-11-04 This book provides a guide for business school students individual investors and business professionals to learn R and Python two open source programming languages It is unique since it allows the reader to learn programming in an R assisted learning environment The book provides 15 weeks worth of teaching material for the reader *Comp-Informatic Practices-TB-12-R* Reeta Sahoo, Gagan Sahoo, Comp Informatic Practices TB 12 R Scaling Up with R and Apache Arrow Nic Crane, Jonathan Keane, Neal Richardson, 2025-06-02 Analyze large datasets directly from R Scaling Up With R and Arrow provides a guide to working efficiently with larger than memory datasets using the arrow R package As data grows in size and complexity traditional data analysis methods in R often hit technical limitations In this book you'll learn how to overcome these hurdles without needing to set up complex infrastructure You'll learn about the Apache Arrow project's origins goals and its significance in bridging the gap between data science and big data ecosystems You'll also learn how to leverage the arrow R package to work directly with files in various formats such as CSV and Parquet using familiar dplyr syntax This book explores practical topics like data manipulation file formats working with larger datasets and optimizing workflows for data in cloud storage Advanced chapters examine user defined functions integration with other tools like DuckDB and extending Arrow's capabilities to work with geospatial data Written by developers of the Arrow R package this guide is essential for anyone looking to scale their data processing capabilities in R **Data Visualization in R and Python** Marco Cremonini, 2025-01-02 Communicate the data that is powering our changing world with this essential text The advent of

machine learning and neural networks in recent years along with other technologies under the broader umbrella of artificial intelligence has produced an explosion in Data Science research and applications Data Visualization which combines the technical knowledge of how to work with data and the visual and communication skills required to present it is an integral part of this subject The expansion of Data Science is already leading to greater demand for new approaches to Data Visualization a process that promises only to grow Data Visualization in R and Python offers a thorough overview of the key dimensions of this subject Beginning with the fundamentals of data visualization with Python and R two key environments for data science the book proceeds to lay out a range of tools for data visualization and their applications in web dashboards data science environments graphics maps and more With an eye towards remarkable recent progress in open source systems and tools this book offers a cutting edge introduction to this rapidly growing area of research and technological development Data Visualization in R and Python readers will also find Coverage suitable for anyone with a foundational knowledge of R and Python Detailed treatment of tools including the Ggplot2 Seaborn and Altair libraries Plotly Dash Shiny and others Case studies accompanying each chapter with full explanations for data operations and logic for each based on Open Data from many different sources and of different formats Data Visualization in R and Python is ideal for any student or professional looking to understand the working principles of this key field

Extending Power BI with Python and R Luca Zavarella, 2024-03-29 Ingest transform manipulate and visualize your data beyond Power BI's capabilities Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Discover best practices for using Python and R in Power BI by implementing non trivial code Enrich your Power BI dashboards using external APIs and machine learning models Create any visualization as complex as you want using Python and R scripts Book Description The latest edition of this book delves deep into advanced analytics focusing on enhancing Python and R proficiency within Power BI New chapters cover optimizing Python and R settings utilizing Intel's Math Kernel Library MKL for performance boosts and addressing integration challenges Techniques for managing large datasets beyond available RAM employing the Parquet data format and advanced fuzzy matching algorithms are explored Additionally it discusses leveraging SQL Server Language Extensions to overcome traditional Python and R limitations in Power BI It also helps in crafting sophisticated visualizations using the Grammar of Graphics in both R and Python This Power BI book will help you master data validation with regular expressions import data from diverse sources and apply advanced algorithms for transformation You'll learn how to safeguard personal data in Power BI with techniques like pseudonymization anonymization and data masking You'll also get to grips with the key statistical features of datasets by plotting multiple visual graphs in the process of building a machine learning model The book will guide you on utilizing external APIs for enrichment enhancing I/O performance and leveraging Python and R for analysis You'll reinforce your learning with questions at the end of each chapter What you will learn Configure optimal integration of Python and R with Power BI Perform complex data manipulations not possible by default in Power BI Boost

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extinction problem is huge with up to 30% of the world's fauna being expected to disappear in the next 50 years. Nevertheless, it has been estimated that the global population of animals in zoos encompasses 12 000–15 000 species and we anticipate that every effort will be made to preserve these species for as long as possible, minimizing inbreeding effects and providing the best welfare standards available. Even if the reproductive biology community cannot solve the global biodiversity crisis for all wild species, we should do our best to maintain important captive populations. Reproductive biology in this context is much more than the development of techniques for helping with too little or too much breeding. While some of the relevant techniques are useful for individual species that society might target for a variety of reasons, whether nationalistic, cultural, or practical, technical developments have to be backed up by thorough biological understanding of the background behind the problems.

Data Science Fundamentals with R, Python, and Open Data Marco Cremonini, 2024-04-16 Data Science Fundamentals with R, Python, and Open Data: Introduction to essential concepts and techniques of the fundamentals of R and Python needed to start data science projects. Organized with a strong focus on open data, Data Science Fundamentals with R, Python, and Open Data discusses concepts, techniques, tools, and first steps to carry out data science projects with a focus on Python and RStudio, reflecting a clear industry trend emerging towards the integration of the two. The text examines intricacies and inconsistencies often found in real data, explaining how to recognize them and guiding readers through possible solutions, and enables readers to handle real data confidently and apply transformations to reorganize, indexing, aggregate, and elaborate. This book is full of reader interactivity, with a companion website hosting supplementary material, including datasets used in the examples and complete running code, R scripts, and Jupyter notebooks of all examples. Exam-style questions are implemented, and multiple-choice questions to support the readers' active learning. Each chapter presents one or more case studies. Written by a highly qualified academic, Data Science Fundamentals with R, Python, and Open Data discusses sample topics such as data organization and operations on data frames, covering reading CSV datasets and common errors, and slicing, creating, and deleting columns in R. Logical conditions and row selection, covering selection of rows with logical conditions and operations on dates, strings, and missing values. Pivoting operations and wide-form/long-form transformations, indexing by groups with multiple variables, and indexing by group and aggregations. Conditional statements and iterations, multicolumn functions, and operations, data frame joins, and handling data in list/dictionary format. Data Science Fundamentals with R, Python, and Open Data is a highly accessible learning resource for students from heterogeneous disciplines where data science and quantitative computational methods are gaining popularity, along with hard sciences not closely related to computer science and medical fields using stochastic and quantitative models.

Marketing Research With R And Python Howard Pong-yuen Lam, 2023-09-28 This book is meant for readers with little or no experience in programming in R and Python who wish to quickly learn what is necessary and be able to conduct marketing research by running tests easily in R or Python. A number of marketing research textbooks have been using SPSS or SAS for many years. Conversely, R

and Python can be downloaded and installed in a personal computer for free. Instructors and students do not have to go to a computer room in a university to use SPSS or SAS anymore. Instead, students can run R or Python on their personal computers. For any company, growth comes either from organic growth of existing products or from launching successful new products. Due to competition in the marketplace, each company's marketer must determine whether or not it is time to develop and launch a new product. This book covers important frameworks and concepts of marketing research for developing a new product.

Python for R Users Ajay Ohri, 2017-11-13. The definitive guide for statisticians and data scientists who understand the advantages of becoming proficient in both R and Python. The first book of its kind. Python for R Users: A Data Science Approach makes it easy for R programmers to code in Python and Python users to program in R. Short on theory and long on actionable analytics, it provides readers with a detailed comparative introduction and overview of both languages and features, concise tutorials with command-by-command translations, complete with sample code of R to Python and Python to R. Following an introduction to both languages, the author cuts to the chase with step-by-step coverage of the full range of pertinent programming features and functions, including data input, data inspection, data quality, data analysis, and data visualization. Statistical modeling, machine learning, and data mining, including supervised and unsupervised data mining methods, are treated in detail, as are time series forecasting, text mining, and natural language processing. Features a quick learning format with concise tutorials and actionable analytics. Provides command-by-command translations of R to Python and vice versa. Incorporates Python and R code throughout to make it easier for readers to compare and contrast features in both languages. Offers numerous comparative examples and applications in both programming languages. Designed for use for practitioners and students that know one language and want to learn the other. Supplies slides useful for teaching and learning either software on a companion website.

Python for R Users: A Data Science Approach is a valuable working resource for computer scientists and data scientists that know R and would like to learn Python or are familiar with Python and want to learn R. It also functions as a textbook for students of computer science and statistics. A. Ohri is the founder of DecisionStats.com and currently works as a senior data scientist. He has advised multiple startups in analytics, offshoring analytics services, and analytics education, as well as using social media to enhance buzz for analytics products. Mr. Ohri's research interests include spreading open source analytics, analyzing social media manipulation with mechanism design, simpler interfaces for cloud computing, investigating climate change, and knowledge flows. His other books include *R for Business Analytics* and *R for Cloud Computing*.

Data Science Using Python and R Chantal D. Larose, Daniel T. Larose, 2019-04-09. Learn data science by doing data science. Data Science Using Python and R will get you plugged into the world's two most widespread open source platforms for data science: Python and R. Data science is hot. Bloomberg called data scientist the hottest job in America. Python and R are the top two open source data science tools in the world. In *Data Science Using Python and R*, you will learn step by step how to produce hands-on solutions to real world business problems using

state of the art techniques Data Science Using Python and R is written for the general reader with no previous analytics or programming experience An entire chapter is dedicated to learning the basics of Python and R Then each chapter presents step by step instructions and walkthroughs for solving data science problems using Python and R Those with analytics experience will appreciate having a one stop shop for learning how to do data science using Python and R Topics covered include data preparation exploratory data analysis preparing to model the data decision trees model evaluation misclassification costs na ve Bayes classification neural networks clustering regression modeling dimension reduction and association rules mining Further exciting new topics such as random forests and general linear models are also included The book emphasizes data driven error costs to enhance profitability which avoids the common pitfalls that may cost a company millions of dollars Data Science Using Python and R provides exercises at the end of every chapter totaling over 500 exercises in the book Readers will therefore have plenty of opportunity to test their newfound data science skills and expertise In the Hands on Analysis exercises readers are challenged to solve interesting business problems using real world data sets

Python and R for the Modern Data Scientist Rick J. Scavetta, Boyan Angelov, 2021-06-22 Success in data science depends on the flexible and appropriate use of tools That includes Python and R two of the foundational programming languages in the field This book guides data scientists from the Python and R communities along the path to becoming bilingual By recognizing the strengths of both languages you ll discover new ways to accomplish data science tasks and expand your skill set Authors Rick Scavetta and Boyan Angelov explain the parallel structures of these languages and highlight where each one excels whether it s their linguistic features or the powers of their open source ecosystems You ll learn how to use Python and R together in real world settings and broaden your job opportunities as a bilingual data scientist Learn Python and R from the perspective of your current language Understand the strengths and weaknesses of each language Identify use cases where one language is better suited than the other Understand the modern open source ecosystem available for both including packages frameworks and workflows Learn how to integrate R and Python in a single workflow Follow a case study that demonstrates ways to use these languages together

Fast Python Tiago Rodrigues Antao, 2023-05-23 Fast Python is a toolbox of techniques for speeding up Python with an emphasis on big data applications For intermediate Python programmers familiar with the basics of concurrency Page 4 of cover

Data Analysis using R and Python Mr. Rohit Manglik, 2024-07-30 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Football Analytics with Python & R Eric A. Eager, Richard A. Erickson, 2023-08-15 Baseball is not the only sport to use moneyball American football fans teams and gamblers are increasingly using data to gain an edge against the competition Professional and college teams use data to help select players and identify team needs Fans use data

to guide fantasy team picks and strategies Sports bettors and fantasy football players are using data to help inform decision making This concise book provides a clear introduction to using statistical models to analyze football data Whether your goal is to produce a winning team dominate your fantasy football league qualify for an entry level football analyst position or simply learn R and Python using fun example cases this book is your starting place You ll learn how to Apply basic statistical concepts to football datasets Describe football data with quantitative methods Create efficient workflows that offer reproducible results Use data science skills such as web scraping manipulating data and plotting data Implement statistical models for football data Link data summaries and model outputs to create reports or presentations using tools such as R Markdown and R Shiny And more

[Tree-Based Methods for Statistical Learning in R](#) Brandon M. Greenwell,2022-06-23

Tree based Methods for Statistical Learning in R provides a thorough introduction to both individual decision tree algorithms Part I and ensembles thereof Part II Part I of the book brings several different tree algorithms into focus both conventional and contemporary Building a strong foundation for how individual decision trees work will help readers better understand tree based ensembles at a deeper level which lie at the cutting edge of modern statistical and machine learning methodology The book follows up most ideas and mathematical concepts with code based examples in the R statistical language with an emphasis on using as few external packages as possible For example users will be exposed to writing their own random forest and gradient tree boosting functions using simple for loops and basic tree fitting software like rpart and party partykit and more The core chapters also end with a detailed section on relevant software in both R and other opensource alternatives e g Python Spark and Julia and example usage on real data sets While the book mostly uses R it is meant to be equally accessible and useful to non R programmers Consumers of this book will have gained a solid foundation and appreciation for tree based methods and how they can be used to solve practical problems and challenges data scientists often face in applied work Features Thorough coverage from the ground up of tree based methods e g CART conditional inference trees bagging boosting and random forests A companion website containing additional supplementary material and the code to reproduce every example and figure in the book A companion R package called treemisc which contains several data sets and functions used throughout the book e g there s an implementation of gradient tree boosting with LAD loss that shows how to perform the line search step by updating the terminal node estimates of a fitted rpart tree Interesting examples that are of practical use for example how to construct partial dependence plots from a fitted model in Spark MLlib using only Spark operations or post processing tree ensembles via the LASSO to reduce the number of trees while maintaining or even improving performance

[Oswaal NTA CUET \(UG\) Chapterwise Question Bank Informatics Practices \(For 2024 Exam\)](#) Oswaal Editorial Board,2023-12-05 Description of the product Strictly as per the Latest Exam Pattern issued by NTA 100% Updated with 2023 Exam Paper Previous Years Questions 2021 2023 for better Exam insights Revision Notes for Crisp Revision with Smart Mind Maps Concept Videos for complex concepts clarity 800 Questions for Extensive Practice *The*

Generic Book Gregory N. Carlson, Francis Jeffry Pelletier, 1995-08 In an attempt to address the theoretical gap between linguistics and philosophy a group of semanticists calling itself the Generic Group has worked to develop a common view of genericity Their research has resulted in this book which consists of a substantive introduction and eleven original articles on important aspects of the interpretation of generic expressions The introduction provides a clear overview of the issues and synthesizes the major analytical approaches to them Taken together the papers that follow reflect the current state of the art in the semantics of generics and afford insight into various generic phenomena **Computational Analysis of**

Communication Wouter van Atteveldt, Damian Trilling, Carlos Arcila Calderon, 2022-03-02 Provides clear guidance on leveraging computational techniques to answer social science questions In disciplines such as political science sociology psychology and media studies the use of computational analysis is rapidly increasing Statistical modeling machine learning and other computational techniques are revolutionizing the way electoral results are predicted social sentiment is measured consumer interest is evaluated and much more Computational Analysis of Communication teaches social science students and practitioners how computational methods can be used in a broad range of applications providing discipline relevant examples clear explanations and practical guidance Assuming little or no background in data science or computer linguistics this accessible textbook teaches readers how to use state of the art computational methods to perform data driven analyses of social science issues A cross disciplinary team of authors with expertise in both the social sciences and computer science explains how to gather and clean data manage textual audio visual and network data conduct statistical and quantitative analysis and interpret summarize and visualize the results Offered in a unique hybrid format that integrates print ebook and open access online viewing this innovative resource Covers the essential skills for social sciences courses on big data data visualization text analysis predictive analytics and others Integrates theory methods and tools to provide unified approach to the subject Includes sample code in Python and links to actual research questions and cases from social science and communication studies Discusses ethical and normative issues relevant to privacy data ownership and reproducible social science Developed in partnership with the International Communication Association and by the editors of Computational Communication Research Computational Analysis of Communication is an invaluable textbook and reference for students taking computational methods courses in social sciences and for professional social scientists looking to incorporate computational methods into their work

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