

R DATA SCIENCE TUTORIAL

R DATA SCIENCE TUTORIAL OFFERS A COMPREHENSIVE GUIDE FOR PROFESSIONALS AND BEGINNERS AIMING TO MASTER DATA SCIENCE TECHNIQUES USING THE R PROGRAMMING LANGUAGE. THIS TUTORIAL COVERS ESSENTIAL CONCEPTS SUCH AS DATA MANIPULATION, VISUALIZATION, STATISTICAL MODELING, AND MACHINE LEARNING, ALL WITHIN THE VERSATILE R ENVIRONMENT. BY EXPLORING PRACTICAL EXAMPLES AND BEST PRACTICES, READERS CAN DEVELOP SKILLS TO ANALYZE COMPLEX DATASETS AND EXTRACT MEANINGFUL INSIGHTS EFFICIENTLY. THE TUTORIAL EMPHASIZES THE USE OF POPULAR R PACKAGES AND TOOLS THAT STREAMLINE DATA SCIENCE WORKFLOWS. WHETHER THE GOAL IS TO PERFORM EXPLORATORY DATA ANALYSIS OR BUILD PREDICTIVE MODELS, THIS GUIDE PROVIDES A STRUCTURED APPROACH TO LEARNING R FOR DATA SCIENCE APPLICATIONS. THE FOLLOWING SECTIONS OUTLINE CORE ELEMENTS OF THIS R DATA SCIENCE TUTORIAL TO FACILITATE A PROGRESSIVE LEARNING EXPERIENCE.

- INTRODUCTION TO R AND DATA SCIENCE
- DATA MANIPULATION AND CLEANING IN R
- DATA VISUALIZATION TECHNIQUES
- STATISTICAL ANALYSIS AND MODELING
- MACHINE LEARNING WITH R
- BEST PRACTICES AND RESOURCES FOR R DATA SCIENCE

INTRODUCTION TO R AND DATA SCIENCE

UNDERSTANDING THE FUNDAMENTALS OF R AND ITS ROLE IN DATA SCIENCE IS CRITICAL FOR ANYONE STARTING THIS R DATA SCIENCE TUTORIAL. R IS A POWERFUL OPEN-SOURCE PROGRAMMING LANGUAGE SPECIFICALLY DESIGNED FOR STATISTICAL COMPUTING AND GRAPHICS. IT PROVIDES A RICH ECOSYSTEM OF PACKAGES THAT SUPPORT DATA ANALYSIS, VISUALIZATION, AND MODELING, MAKING IT A PREFERRED CHOICE FOR DATA SCIENTISTS. THIS SECTION INTRODUCES R'S ENVIRONMENT, SYNTAX, AND HOW IT INTEGRATES WITH DATA SCIENCE PRINCIPLES.

WHAT IS R?

R IS A LANGUAGE AND ENVIRONMENT FOR STATISTICAL COMPUTING AND GRAPHICS. IT IS WIDELY USED FOR DATA MANIPULATION, STATISTICAL MODELING, AND GRAPHICAL REPRESENTATION OF DATA. ITS EXTENSIBILITY THROUGH PACKAGES ALLOWS USERS TO IMPLEMENT A WIDE RANGE OF DATA SCIENCE TECHNIQUES. R SUPPORTS VARIOUS DATA TYPES AND STRUCTURES, WHICH ARE ESSENTIAL FOR HANDLING COMPLEX DATASETS EFFECTIVELY.

OVERVIEW OF DATA SCIENCE

DATA SCIENCE INVOLVES EXTRACTING KNOWLEDGE AND INSIGHTS FROM STRUCTURED AND UNSTRUCTURED DATA USING SCIENTIFIC METHODS, ALGORITHMS, AND SYSTEMS. IT ENCOMPASSES DATA COLLECTION, CLEANING, EXPLORATION, VISUALIZATION, MODELING, AND INTERPRETATION. R PLAYS A SIGNIFICANT ROLE IN EACH PHASE DUE TO ITS STATISTICAL CAPABILITIES AND COMPREHENSIVE PACKAGE ECOSYSTEM.

SETTING UP R ENVIRONMENT

TO BEGIN THIS R DATA SCIENCE TUTORIAL, SETTING UP THE R ENVIRONMENT IS NECESSARY. THIS INCLUDES INSTALLING R ITSELF AND AN INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) SUCH AS RSTUDIO. RSTUDIO ENHANCES PRODUCTIVITY BY PROVIDING TOOLS LIKE SYNTAX HIGHLIGHTING, DEBUGGING, AND WORKSPACE MANAGEMENT, WHICH ARE ESSENTIAL FOR EFFICIENT DATA SCIENCE WORKFLOWS.

DATA MANIPULATION AND CLEANING IN R

DATA PREPARATION IS A FOUNDATIONAL STEP IN ANY DATA SCIENCE PROJECT. THIS SECTION OF THE R DATA SCIENCE TUTORIAL FOCUSES ON TECHNIQUES FOR MANIPULATING AND CLEANING DATASETS USING R. CLEAN DATA ENSURES ACCURATE ANALYSIS AND RELIABLE RESULTS. R OFFERS POWERFUL PACKAGES LIKE DPLYR AND TIDYR THAT SIMPLIFY THESE PROCESSES.

IMPORTING DATA

R SUPPORTS IMPORTING DATA FROM VARIOUS FORMATS INCLUDING CSV, EXCEL, JSON, AND DATABASES. FUNCTIONS SUCH AS `read.csv()` AND `readxl::read_excel()` ALLOW SEAMLESS DATA IMPORT. PROPER IMPORT TECHNIQUES ENSURE DATA INTEGRITY FOR SUBSEQUENT ANALYSIS.

DATA CLEANING TECHNIQUES

DATA CLEANING INVOLVES HANDLING MISSING VALUES, CORRECTING INCONSISTENCIES, REMOVING DUPLICATES, AND TRANSFORMING DATA TYPES. THE R DATA SCIENCE TUTORIAL EMPHASIZES USING FUNCTIONS LIKE `na.omit()`, `fill()`, AND `mutate()` FROM THE TIDYVERSE TO CLEAN DATASETS EFFICIENTLY.

DATA TRANSFORMATION AND MANIPULATION

TRANSFORMING DATA TO A SUITABLE FORMAT IS CRUCIAL FOR ANALYSIS. R'S DPLYR PACKAGE PROVIDES VERBS SUCH AS `filter()`, `select()`, `arrange()`, AND `summarise()` TO MANIPULATE DATA FRAMES WITH INTUITIVE SYNTAX. THESE OPERATIONS ENABLE SORTING, SUBSETTING, AGGREGATING, AND RESHAPING DATA EFFECTIVELY.

- FILTERING ROWS BASED ON CONDITIONS
- SELECTING SPECIFIC COLUMNS
- GROUPING DATA FOR SUMMARY STATISTICS
- JOINING MULTIPLE DATASETS
- PIVOTING DATA FROM WIDE TO LONG FORMAT AND VICE VERSA

DATA VISUALIZATION TECHNIQUES

VISUALIZING DATA IS ESSENTIAL FOR UNCOVERING PATTERNS AND COMMUNICATING RESULTS. THIS PART OF THE R DATA SCIENCE TUTORIAL INTRODUCES VISUALIZATION PRINCIPLES AND DEMONSTRATES HOW TO CREATE INSIGHTFUL GRAPHS USING R'S CAPABILITIES. THE GGPLOT2 PACKAGE IS A CORNERSTONE FOR GENERATING HIGH-QUALITY PLOTS.

BASIC PLOTTING IN R

R PROVIDES BASE PLOTTING FUNCTIONS SUCH AS `plot()`, `hist()`, AND `boxplot()` TO GENERATE SIMPLE CHARTS. THESE ARE USEFUL FOR QUICK VISUALIZATION DURING EXPLORATORY DATA ANALYSIS. UNDERSTANDING THESE BASICS LAYS THE GROUNDWORK FOR MORE ADVANCED GRAPHICAL REPRESENTATIONS.

ADVANCED VISUALIZATION WITH GGPLOT2

GGPLOT2 IS A POWERFUL GRAMMAR OF GRAPHICS-BASED SYSTEM THAT ALLOWS CONSTRUCTING COMPLEX AND CUSTOMIZABLE VISUALIZATIONS. IT SUPPORTS LAYERING COMPONENTS LIKE POINTS, LINES, AND BARS WITH AESTHETIC MAPPINGS TO VARIABLES. THIS FLEXIBILITY MAKES IT IDEAL FOR DETAILED DATA STORYTELLING.

TYPES OF VISUALIZATIONS

COMMON VISUALIZATION TYPES COVERED IN THE R DATA SCIENCE TUTORIAL INCLUDE:

- SCATTER PLOTS FOR RELATIONSHIP ANALYSIS
- HISTOGRAMS AND DENSITY PLOTS FOR DISTRIBUTION VISUALIZATION
- BAR CHARTS FOR CATEGORICAL DATA
- BOXPLOTS FOR DETECTING OUTLIERS
- HEATMAPS FOR CORRELATION MATRICES

STATISTICAL ANALYSIS AND MODELING

THIS SECTION DIVES INTO STATISTICAL METHODS AND MODELING TECHNIQUES USING R, AN ESSENTIAL PART OF ANY R DATA SCIENCE TUTORIAL. STATISTICAL ANALYSIS HELPS IN UNDERSTANDING DATA PROPERTIES AND RELATIONSHIPS, WHILE MODELING ALLOWS PREDICTION AND INFERENCE BASED ON DATA PATTERNS.

DESCRIPTIVE STATISTICS

DESCRIPTIVE STATISTICS SUMMARIZE DATA CHARACTERISTICS SUCH AS MEAN, MEDIAN, VARIANCE, AND STANDARD DEVIATION. R FUNCTIONS LIKE `summary()` AND `sd()` FACILITATE RAPID COMPUTATION OF THESE METRICS, PROVIDING A SNAPSHOT OF THE

DATASET'S DISTRIBUTION AND CENTRAL TENDENCY.

INFERENCEAL STATISTICS

INFERENCEAL STATISTICS ALLOW MAKING GENERALIZATIONS FROM SAMPLE DATA TO A LARGER POPULATION. THIS INCLUDES HYPOTHESIS TESTING, CONFIDENCE INTERVALS, AND REGRESSION ANALYSIS. R'S BUILT-IN FUNCTIONS AND PACKAGES LIKE STATS ENABLE CONDUCTING T-TESTS, CHI-SQUARED TESTS, AND ANOVA EFFICIENTLY.

REGRESSION MODELING

REGRESSION MODELS ASSESS RELATIONSHIPS BETWEEN VARIABLES AND PREDICT OUTCOMES. LINEAR REGRESSION IS COMMONLY USED FOR CONTINUOUS VARIABLES, WHILE LOGISTIC REGRESSION APPLIES TO BINARY OUTCOMES. THE `LM()` AND `GLM()` FUNCTIONS IN R FACILITATE FITTING THESE MODELS WITH DETAILED DIAGNOSTICS.

MACHINE LEARNING WITH R

MACHINE LEARNING IS A KEY AREA OF DATA SCIENCE THAT INVOLVES BUILDING ALGORITHMS TO LEARN FROM DATA AND MAKE PREDICTIONS. THIS SECTION OF THE R DATA SCIENCE TUTORIAL INTRODUCES MACHINE LEARNING CONCEPTS AND ILLUSTRATES THEIR IMPLEMENTATION USING R PACKAGES SUCH AS `CARET` AND `RANDOMFOREST`.

SUPERVISED LEARNING

SUPERVISED LEARNING USES LABELED DATA TO TRAIN MODELS FOR CLASSIFICATION AND REGRESSION TASKS. TECHNIQUES INCLUDE DECISION TREES, SUPPORT VECTOR MACHINES, AND ENSEMBLE METHODS. R PROVIDES EXTENSIVE LIBRARIES TO TRAIN, TUNE, AND EVALUATE THESE MODELS SYSTEMATICALLY.

UNSUPERVISED LEARNING

UNSUPERVISED LEARNING IDENTIFIES PATTERNS IN UNLABELED DATA THROUGH CLUSTERING AND DIMENSIONALITY REDUCTION. METHODS SUCH AS K-MEANS CLUSTERING AND PRINCIPAL COMPONENT ANALYSIS (PCA) HELP IN DISCOVERING INHERENT DATA STRUCTURES. R OFFERS ACCESSIBLE FUNCTIONS TO PERFORM THESE ANALYSES EFFECTIVELY.

MODEL EVALUATION AND TUNING

EVALUATING MODEL PERFORMANCE IS CRUCIAL TO ENSURE ACCURACY AND GENERALIZABILITY. METRICS LIKE ACCURACY, PRECISION, RECALL, AND ROC CURVES ARE USED DEPENDING ON THE PROBLEM TYPE. CROSS-VALIDATION TECHNIQUES PREVENT OVERFITTING. THE `CARET` PACKAGE IN R STREAMLINES THESE PROCESSES BY INTEGRATING TRAINING AND EVALUATION WORKFLOWS.

BEST PRACTICES AND RESOURCES FOR R DATA SCIENCE

ADOPTING BEST PRACTICES ENHANCES PRODUCTIVITY AND THE QUALITY OF DATA SCIENCE PROJECTS USING R. THIS FINAL SECTION OF THE R DATA SCIENCE TUTORIAL HIGHLIGHTS CODING STANDARDS, REPRODUCIBILITY, AND AVAILABLE RESOURCES TO CONTINUE LEARNING AND IMPROVING SKILLS.

WRITING CLEAN AND REPRODUCIBLE CODE

CLEAR, WELL-DOCUMENTED CODE IS VITAL FOR COLLABORATION AND FUTURE MAINTENANCE. UTILIZING RMARKDOWN ALLOWS COMBINING CODE WITH NARRATIVE TEXT TO CREATE REPRODUCIBLE REPORTS. VERSION CONTROL WITH GIT SUPPORTS TRACKING CHANGES AND MANAGING PROJECTS EFFICIENTLY.

UTILIZING R PACKAGES AND COMMUNITY RESOURCES

THE R COMMUNITY OFFERS NUMEROUS PACKAGES AND LEARNING MATERIALS THAT FACILITATE DATA SCIENCE TASKS. POPULAR PACKAGES INCLUDE TIDYVERSE FOR DATA MANIPULATION, GGPLOT2 FOR VISUALIZATION, AND CARET FOR MACHINE LEARNING. ONLINE FORUMS, TUTORIALS, AND DOCUMENTATION PROVIDE ONGOING SUPPORT.

CONTINUOUS LEARNING AND PRACTICE

DATA SCIENCE IS AN EVOLVING FIELD REQUIRING CONTINUOUS SKILL DEVELOPMENT. ENGAGING WITH REAL-WORLD DATASETS, PARTICIPATING IN COMPETITIONS, AND FOLLOWING INDUSTRY UPDATES ENSURE STAYING CURRENT. THIS R DATA SCIENCE TUTORIAL ENCOURAGES LEVERAGING DIVERSE RESOURCES TO DEEPEN EXPERTISE.

FREQUENTLY ASKED QUESTIONS

WHAT IS A GOOD STARTING POINT FOR BEGINNERS IN AN R DATA SCIENCE TUTORIAL?

A GOOD STARTING POINT IS TO LEARN THE BASICS OF R PROGRAMMING, INCLUDING DATA TYPES, VECTORS, DATA FRAMES, AND BASIC FUNCTIONS, FOLLOWED BY AN INTRODUCTION TO DATA MANIPULATION WITH DPLYR AND DATA VISUALIZATION WITH GGPLOT2.

WHICH R PACKAGES ARE ESSENTIAL FOR DATA SCIENCE TUTORIALS?

ESSENTIAL R PACKAGES FOR DATA SCIENCE INCLUDE TIDYVERSE (WHICH INCLUDES DPLYR, GGPLOT2, TIDYR), DATA.TABLE FOR FAST DATA MANIPULATION, CARET FOR MACHINE LEARNING, AND READR FOR DATA IMPORT.

HOW CAN I PERFORM DATA CLEANING IN R AS PART OF A DATA SCIENCE TUTORIAL?

DATA CLEANING IN R CAN BE PERFORMED USING PACKAGES LIKE DPLYR AND TIDYR TO HANDLE MISSING VALUES, FILTER ROWS, MUTATE COLUMNS, AND RESHAPE DATA. FUNCTIONS LIKE NA.OMIT(), REPLACE_NA(), AND COMPLETE.CASES() ARE USEFUL.

WHAT ARE SOME RECOMMENDED RESOURCES FOR LEARNING DATA VISUALIZATION IN R

THROUGH TUTORIALS?

RECOMMENDED RESOURCES INCLUDE THE OFFICIAL R FOR DATA SCIENCE BOOK BY HADLEY WICKHAM, ONLINE COURSES ON PLATFORMS LIKE COURSERA AND DATACAMP, AND TUTORIALS FOCUSING ON GGPLOT2 FOR CREATING ADVANCED VISUALIZATIONS.

HOW DOES R COMPARE WITH PYTHON IN DATA SCIENCE TUTORIALS?

R IS PARTICULARLY STRONG IN STATISTICS AND DATA VISUALIZATION WITH A RICH ECOSYSTEM OF PACKAGES LIKE GGPLOT2 AND SHINY, MAKING IT EXCELLENT FOR EXPLORATORY DATA ANALYSIS. PYTHON IS MORE VERSATILE WITH BROADER APPLICATIONS, BUT BOTH ARE WIDELY USED IN DATA SCIENCE.

CAN I LEARN MACHINE LEARNING USING R IN A DATA SCIENCE TUTORIAL?

YES, R HAS MANY PACKAGES SUCH AS CARET, RANDOMFOREST, AND XGBOOST THAT ALLOW USERS TO IMPLEMENT MACHINE LEARNING ALGORITHMS. MANY TUTORIALS COVER HOW TO BUILD, TUNE, AND EVALUATE MODELS USING THESE PACKAGES.

WHAT IS THE ROLE OF R MARKDOWN IN DATA SCIENCE TUTORIALS?

R MARKDOWN ALLOWS YOU TO CREATE DYNAMIC, REPRODUCIBLE REPORTS COMBINING CODE, OUTPUT, AND NARRATIVE TEXT, MAKING IT AN ESSENTIAL TOOL FOR DOCUMENTING DATA SCIENCE PROJECTS AND TUTORIALS IN R.

ADDITIONAL RESOURCES

1. *R FOR DATA SCIENCE: IMPORT, TIDY, TRANSFORM, VISUALIZE, AND MODEL DATA*

THIS BOOK BY HADLEY WICKHAM AND GARRETT GROLEMUND IS AN EXCELLENT INTRODUCTION TO DATA SCIENCE USING R. IT COVERS THE ENTIRE DATA SCIENCE WORKFLOW, INCLUDING DATA IMPORT, CLEANING, VISUALIZATION, AND MODELING. THE BOOK EMPHASIZES THE USE OF THE TIDYVERSE COLLECTION OF PACKAGES, WHICH MAKES DATA MANIPULATION MORE INTUITIVE AND EFFICIENT FOR BEGINNERS AND INTERMEDIATES ALIKE.

2. *HANDS-ON PROGRAMMING WITH R: WRITE YOUR OWN FUNCTIONS AND SIMULATIONS*

WRITTEN BY GARRETT GROLEMUND, THIS BOOK IS PERFECT FOR THOSE WHO WANT TO DEEPEN THEIR PROGRAMMING SKILLS IN R WHILE LEARNING DATA SCIENCE CONCEPTS. IT FOCUSES ON WRITING FUNCTIONS AND SIMULATIONS, HELPING READERS UNDERSTAND HOW TO AUTOMATE DATA ANALYSIS TASKS. THE BOOK PROVIDES PRACTICAL EXERCISES TO BUILD CONFIDENCE IN PROGRAMMING WITH R.

3. *DATA SCIENCE WITH R: A HANDS-ON APPROACH*

THIS BOOK OFFERS A PRACTICAL GUIDE TO DATA SCIENCE TECHNIQUES USING R, SUITABLE FOR BEGINNERS AND PRACTITIONERS. IT WALKS THROUGH REAL-WORLD EXAMPLES TO TEACH DATA MANIPULATION, VISUALIZATION, AND STATISTICAL MODELING. THE CLEAR EXPLANATIONS AND HANDS-ON EXERCISES MAKE COMPLEX CONCEPTS ACCESSIBLE.

4. *R IN ACTION: DATA ANALYSIS AND GRAPHICS WITH R*

AUTHORED BY ROBERT KABACOFF, THIS BOOK IS GREAT FOR THOSE WHO WANT A COMPREHENSIVE REFERENCE ON DATA ANALYSIS AND VISUALIZATION IN R. IT COVERS A BROAD RANGE OF TOPICS INCLUDING DATA HANDLING, MODELING, AND CREATING HIGH-QUALITY GRAPHICS. THE BOOK IS PACKED WITH EXAMPLES AND IS USEFUL FOR BOTH BEGINNERS AND ADVANCED USERS.

5. *ADVANCED R*

BY HADLEY WICKHAM, THIS BOOK IS AIMED AT USERS WHO ALREADY HAVE A BASIC UNDERSTANDING OF R AND WANT TO DEEPEN THEIR KNOWLEDGE. IT EXPLORES THE UNDERLYING STRUCTURES OF THE LANGUAGE, FUNCTIONAL PROGRAMMING, AND OBJECT-ORIENTED PROGRAMMING IN R. THIS RESOURCE IS VALUABLE FOR THOSE WHO WANT TO WRITE MORE EFFICIENT AND ROBUST R CODE FOR DATA SCIENCE PROJECTS.

6. *PRACTICAL DATA SCIENCE WITH R*

THIS BOOK PROVIDES A PRACTICAL APPROACH TO LEARNING DATA SCIENCE CONCEPTS AND APPLYING THEM USING R. IT COVERS DATA EXPLORATION, VISUALIZATION, AND PREDICTIVE MODELING WITH CLEAR EXAMPLES. THE BOOK IS DESIGNED TO HELP

READERS BUILD SKILLS THAT ARE DIRECTLY APPLICABLE TO REAL-WORLD DATA ANALYSIS TASKS.

7. *MACHINE LEARNING WITH R*

FOCUSING ON MACHINE LEARNING TECHNIQUES, THIS BOOK TEACHES HOW TO IMPLEMENT ALGORITHMS IN R FOR CLASSIFICATION, REGRESSION, CLUSTERING, AND MORE. IT INTRODUCES POPULAR MACHINE LEARNING PACKAGES AND EXPLAINS HOW TO EVALUATE MODEL PERFORMANCE. THE HANDS-ON APPROACH IS IDEAL FOR DATA SCIENTISTS LOOKING TO ENHANCE THEIR PREDICTIVE ANALYTICS CAPABILITIES.

8. *TEXT MINING WITH R: A TIDY APPROACH*

THIS BOOK EXPLORES TECHNIQUES FOR TEXT MINING USING R AND THE TIDYTEXT PACKAGE. IT GUIDES READERS THROUGH THE PROCESS OF EXTRACTING INSIGHTS FROM TEXTUAL DATA, INCLUDING SENTIMENT ANALYSIS AND TOPIC MODELING. THE TIDY APPROACH MAKES COMPLEX TEXT MINING TASKS MORE MANAGEABLE FOR DATA SCIENCE PRACTITIONERS.

9. *R GRAPHICS COOKBOOK: PRACTICAL RECIPES FOR VISUALIZING DATA*

WRITTEN BY WINSTON CHANG, THIS BOOK IS A COLLECTION OF PRACTICAL RECIPES FOR CREATING A VARIETY OF DATA VISUALIZATIONS USING R. IT COVERS BASE R GRAPHICS AS WELL AS GGPLOT2, PROVIDING STEP-BY-STEP INSTRUCTIONS FOR PRODUCING EFFECTIVE AND ATTRACTIVE CHARTS. THIS RESOURCE IS INVALUABLE FOR DATA SCIENTISTS WHO WANT TO ENHANCE THEIR DATA STORYTELLING SKILLS.

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r data science tutorial: Data Science Quick Reference Manual Analysis and Visualization Mario A. B. Capurso, This work follows the 2021 curriculum of the Association for Computing Machinery for specialists in Data Sciences, with the aim of producing a manual that collects notions in a simplified form, facilitating a personal training path starting from specialized skills in Computer Science or Mathematics or Statistics. It has a bibliography with links to quality material but freely usable for your own training and contextual practical exercises. Second of a series of books, it covers methodological aspects, analysis and visualization. It describes the CRISP DM methodology, the working phases, the success criteria, the languages and the environments that can be used, the application libraries. Since this book uses Orange for the application aspects, its installation and widgets are described. In visualization, historical notes are made, and next the book describes the characteristics of an effective visualization, the types of messages that can be conveyed, the Grammar of Graphics, the use of a graph and a dashboard, the software and libraries that can be used, the role and use of color. 55 types of graphs are then analyzed, reporting meaning, use, examples and visual dimensions also with a vocabulary of graphs and summary tables. Examples are given in Orange and the possible use of Python with Orange is explained. Visualization-based inference is discussed, exploratory and confirmatory analysis is defined and techniques are reported. The book is accompanied by supporting material and it is possible to download the project samples in Orange and sample data.

r data science tutorial: Introduction to Biomedical Data Science Robert Hoyt, Robert Muenchen, 2019-11-24 Overview of biomedical data science -- Spreadsheet tools and tips -- Biostatistics primer -- Data visualization -- Introduction to databases -- Big data -- Bioinformatics and precision medicine -- Programming languages for data analysis -- Machine learning -- Artificial intelligence -- Biomedical data science resources -- Appendix A: Glossary -- Appendix B: Using

data.world -- Appendix C: Chapter exercises.

r data science tutorial: Data Science Quick Reference Manual – Methodological Aspects, Data Acquisition, Management and Cleaning Mario A. B. Capurso, This work follows the 2021 curriculum of the Association for Computing Machinery for specialists in Data Sciences, with the aim of producing a manual that collects notions in a simplified form, facilitating a personal training path starting from specialized skills in Computer Science or Mathematics or Statistics. It has a bibliography with links to quality material but freely usable for your own training and contextual practical exercises. First of a series of books, it covers methodological aspects, data acquisition, management and cleaning. It describes the CRISP DM methodology, the working phases, the success criteria, the languages and the environments that can be used, the application libraries. Since this book uses Orange for the application aspects, its installation and widgets are described. Dealing with data acquisition, the book describes data sources, the acceleration techniques, the discretization methods, the security standards, the types and representations of the data, the techniques for managing corpus of texts such as bag-of-words, word-count, TF-IDF, n-grams, lexical analysis, syntactic analysis, semantic analysis, stop word filtering, stemming, techniques for representing and processing images, sampling, filtering, web scraping techniques. Examples are given in Orange. Data quality dimensions are analysed, and then the book considers algorithms for entity identification, truth discovery, rule-based cleaning, missing and repeated value handling, categorical value encoding, outlier cleaning, and errors, inconsistency management, scaling, integration of data from various sources and classification of open sources, application scenarios and the use of databases, datawarehouses, data lakes and mediators, data schema mapping and the role of RDF, OWL and SPARQL, transformations. Examples are given in Orange. The book is accompanied by supporting material and it is possible to download the project samples in Orange and sample data.

r data science tutorial: Algorithms for Data Science Brian Steele, John Chandler, Swarna Reddy, 2016-12-25 This textbook on practical data analytics unites fundamental principles, algorithms, and data. Algorithms are the keystone of data analytics and the focal point of this textbook. Clear and intuitive explanations of the mathematical and statistical foundations make the algorithms transparent. But practical data analytics requires more than just the foundations. Problems and data are enormously variable and only the most elementary of algorithms can be used without modification. Programming fluency and experience with real and challenging data is indispensable and so the reader is immersed in Python and R and real data analysis. By the end of the book, the reader will have gained the ability to adapt algorithms to new problems and carry out innovative analyses. This book has three parts: (a) Data Reduction: Begins with the concepts of data reduction, data maps, and information extraction. The second chapter introduces associative statistics, the mathematical foundation of scalable algorithms and distributed computing. Practical aspects of distributed computing is the subject of the Hadoop and MapReduce chapter. (b) Extracting Information from Data: Linear regression and data visualization are the principal topics of Part II. The authors dedicate a chapter to the critical domain of Healthcare Analytics for an extended example of practical data analytics. The algorithms and analytics will be of much interest to practitioners interested in utilizing the large and unwieldy data sets of the Centers for Disease Control and Prevention's Behavioral Risk Factor Surveillance System. (c) Predictive Analytics Two foundational and widely used algorithms, k-nearest neighbors and naive Bayes, are developed in detail. A chapter is dedicated to forecasting. The last chapter focuses on streaming data and uses publicly accessible data streams originating from the Twitter API and the NASDAQ stock market in the tutorials. This book is intended for a one- or two-semester course in data analytics for upper-division undergraduate and graduate students in mathematics, statistics, and computer science. The prerequisites are kept low, and students with one or two courses in probability or statistics, an exposure to vectors and matrices, and a programming course will have no difficulty. The core material of every chapter is accessible to all with these prerequisites. The chapters often expand at the close with innovations of interest to practitioners of data science. Each chapter

includes exercises of varying levels of difficulty. The text is eminently suitable for self-study and an exceptional resource for practitioners.

r data science tutorial: Learning Basic and Advanced Database modules on ICDL Professional Syllabus Mario Capurso, This work follows the ICDL (International Certification of Digital Literacy) Database Basic and Advanced Syllabus, expanded according to the document on Curriculum Guidelines for Undergraduate Degree Programs in Computer Science of December 20, 2013 by the Association for Computing Machinery and IEEE Computer Society. As for the know-how aspects (skills), some use Microsoft Access, which is not professional and has a non-standard version of SQL. This text uses MySQL and SQLite. They are professional, open source, totally free and widely used and easy to install. This satisfies the skills of the ICDL modules. However, the question of how to use this data remains. To do this today you need to master the Python language or the R language, which require learning times and delay the start of practice by weeks. There is a third possibility: using visual environments that allow you to make applications without knowing any language. Orange is one of these. It is visual but is based on Python, it allows you to make applications without knowing the language but also allows you to extend the application if and when you know Python. In addition, MySQL and SQLite coexist with Python and Orange Data Mining. This text uses Orange as an environment for experimentation and exercise in Data Science. It is possible to decide not to install Orange in case one is interested exclusively in SQL. In this case the reader will be free to skip the application exercises with Orange and return to them later if he/she feels the need. It should be clarified that this text follows the ICDL Syllabus and provides the skills associated with the modules in question, but it is not able to guarantee that the reader will be able to automatically pass the certification exam. In fact, it requires the purchase of a skill card, registration with a test center, compliance with a series of rules dictated by the national member organizations of the ICDL consortium and by the test center, and all of this is beyond what we can guarantee. After describing the installation of the programs used for the exercises, the text considers the types of data and their representations, including images and documents. The concepts of System, Information System and Database are introduced, as well as the most common practices of data security and privacy. The relational model and SQL are also explained with application examples with MySQL and SQLite. The various types of Joins, sorting, aggregation and grouping queries, integrity constraints, GRANT and REVOKE security features, views, indexing, Normal Forms and Normalization are then analyzed. Multi-user access to databases, interference and deadlock, locking techniques and transactions are then considered. Distributed databases and the possible options with MySQL and SQLite are then described. The limits of the relational model and the most common non-relational models (NOSQL) are outlined, the conceptual Entity-Relationship and object models according to ISO/UM and the process for moving from the problem text to the conceptual and logical relational model. The data integration process is outlined also with the use of data warehouses, data lakes and mediators, data cleaning, management of missing, repeated, anomalous and incorrect values, coding of categorical values. Finally, the project objectives are distinguished according to the best model, whether relational or non-relational. The text is accompanied by supporting material and it is possible to download the examples and test data.

r data science tutorial: Data Science with Semantic Technologies Archana Patel, Narayan C. Debnath, 2023-06-20 As data is an important asset for any organization, it is essential to apply semantic technologies in data science to fulfill the need of any organization. This first volume of a two-volume handbook set provides a roadmap for new trends and future developments of data science with semantic technologies. Data Science with Semantic Technologies: New Trends and Future Developments highlights how data science enables the user to create intelligence through these technologies. In addition, this book offers the answers to various questions such as: Can semantic technologies facilitate data science? Which type of data science problems can be tackled by semantic technologies? How can data scientists benefit from these technologies? What is the role of semantic technologies in data science? What is the current progress and future of data science with semantic technologies? Which types of problems require the immediate attention of the researchers?

What should be the vision 2030 for data science? This volume can serve as an important guide toward applications of data science with semantic technologies for the upcoming generation and, thus, it is a unique resource for scholars, researchers, professionals, and practitioners in this field.

r data science tutorial: Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry Chkoniya, Valentina, 2021-06-25 The contemporary world lives on the data produced at an unprecedented speed through social networks and the internet of things (IoT). Data has been called the new global currency, and its rise is transforming entire industries, providing a wealth of opportunities. Applied data science research is necessary to derive useful information from big data for the effective and efficient utilization to solve real-world problems. A broad analytical set allied with strong business logic is fundamental in today's corporations. Organizations work to obtain competitive advantage by analyzing the data produced within and outside their organizational limits to support their decision-making processes. This book aims to provide an overview of the concepts, tools, and techniques behind the fields of data science and artificial intelligence (AI) applied to business and industries. The Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry discusses all stages of data science to AI and their application to real problems across industries—from science and engineering to academia and commerce. This book brings together practice and science to build successful data solutions, showing how to uncover hidden patterns and leverage them to improve all aspects of business performance by making sense of data from both web and offline environments. Covering topics including applied AI, consumer behavior analytics, and machine learning, this text is essential for data scientists, IT specialists, managers, executives, software and computer engineers, researchers, practitioners, academicians, and students.

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