

Data Science From Scratch First Principles With Python

This volume explores the diverse applications of advanced tools and technologies of the emerging field of big data and their evidential value in business. It examines the role of analytics tools and methods of using big data in strengthening businesses to meet today's information challenges and shows how businesses can adapt big data for effective business practices. This volume shows how big data and the use of data analytics is being effectively adopted more frequently, especially in companies that are looking for new methods to develop smarter capabilities and tackle challenges in dynamic processes. Many illustrative case studies are presented that highlight how companies in every sector are now focusing on harnessing data to create a new way of doing business.

Historically, nursing, in all of its missions of research/scholarship, education and practice, has not had access to large patient databases. Nursing consequently adopted qualitative methodologies with small sample sizes, clinical trials and lab research. Historically, large data methods were limited to traditional biostatistical analyses. In the United States, large payer data has been amassed and structures/organizations have been created to welcome scientists to explore these large data to advance knowledge discovery. Health systems electronic health records (EHRs) have now matured to generate massive databases with longitudinal trending. This text reflects how the learning health system infrastructure is maturing, and being advanced by health information exchanges (HIEs) with multiple organizations blending their data, or enabling distributed computing. It educates the readers on the evolution of knowledge discovery methods that span qualitative as well as quantitative data mining, including the expanse of data visualization capacities, are enabling sophisticated discovery. New opportunities for nursing and call for new skills in research methodologies are being further enabled by new partnerships spanning all sectors.

'If you act powerfully, you will begin to think powerfully'. Of je nu in gesprek gaat met twee personen of een presentatie moet houden voor een volle zaal: we komen iedere dag sociale uitdagingen tegen die we aan moeten gaan om vooruit te komen, zowel privé als zakelijk. In Presence gaat Amy Cuddy in op de wetenschappelijke inzichten achter vele fascinerende verbanden tussen lichaam en geest. Ze geeft tips hoe we deze wetenschap kunnen gebruiken om op moeilijke momenten of in stresssituaties zelfverzekerder en krachtiger te kunnen optreden. Amy Cuddy liep op 19-jarige leeftijd ernstig hoofdletsel op. Medici betwijfelden of ze ooit haar mentale capaciteit terug zou krijgen en haar opleiding af zou kunnen maken. Inmiddels is zij sociaal psycholoog, professor en onderzoeker op Harvard Business School. Zij imponeerde kijkers over de hele wereld met een van de meest bekeken TEDtalks (meer dan 27 miljoen views sinds 2012) over 'power poses'.

Data Science from Scratch O'Reilly Media

This is a first-principles-based, practical introduction to the fundamentals of data science aimed at the mathematically-comfortable reader with some programming skills. The book covers: The important parts of Python to know The important parts of Math / Probability / Statistics to know The basics of data science How commonly-used data science techniques work (learning by implementing them) What is Map-Reduce and how to do it in Python Other applications such as NLP, Network Analysis, and more

In To be a man behandelt Robert Augustus Masters levensvragen waar mannen mee worstelen. "Ik heb alles: een mooi huis, een goede baan, een leuke vrouw en lieve kinderen, waarom ben ik dan toch zo ontevreden?" "Hoe kan ik krachtiger overkomen, zonder dat anderen mij meteen een eikel vinden?" "Waarom lukt het me maar niet om gelukkig te zijn in mijn relaties?" Antwoorden of oplossingen zijn niet altijd gemakkelijk, maar ze zijn er wel: mannen moeten hun 'gevecht' naar binnen - in zichzelf - verplaatsen. Ze moeten het niet meer zoeken in verslavingen, agressie of porno. Alle pijn, schaamte en schaduw uit het verleden

moet eerst vanbinnen worden opgelost. Pas daarna kunnen hoofd, hart en verlangens weer in balans zijn. Robert Augustus Masters geeft daartoe in dit boek handvatten, voorbeelden en oefeningen.

A broad-ranging and pluralistic textbook which highlights the rich variety of approaches to studying politics. Written by an international team of experts, this fully revised fourth edition offers cutting-edge coverage from fundamental to contemporary issues. Integrating guides to further reading and clear examples of how research methods can be applied, it enables readers to feel confident about taking their study of politics forward. An ideal foundation for study and research in political science, this textbook will be essential to students at any stage of their degree. It serves as core reading on undergraduate and postgraduate political analysis, theory and methods courses. In demonstrating how independent research is undertaken in political science, the book allows students and early career researchers to begin thinking about formulating their own research agendas. This new edition: - Leads the way with fresh new ideas and perspectives with the help of new co-editor Vivien Lowndes - Includes new chapters on post-structuralism as a theoretical approach and on 'big data' as a methodological resource - Offers an international perspective on political science, with discussion of global as well as domestic politics and a range of international cases and examples.

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

Analyzing data sets has continued to be an invaluable application for numerous industries. By combining different algorithms, technologies, and systems used to extract information from data and solve complex problems, various sectors have reached new heights and have changed our world for the better. The Handbook of Research on Engineering, Business, and Healthcare Applications of Data Science and Analytics is a collection of innovative research on the methods and applications of data analytics. While highlighting topics including artificial intelligence, data security, and information systems, this book is ideally designed for researchers, data analysts, data scientists, healthcare administrators, executives, managers, engineers, IT consultants, academicians, and students interested in the potential of data application technologies.

This comprehensive career guide helps readers take a close look at coding as a career path and gives them a long, actionable list for turning their interests into a career across a variety of fields. Whether a student is interested in games, engineering, design, or systems administration, each career path comes with a detailed list of resources and first-person accounts from professionals in the field. This guide is all a coding enthusiast needs to get

started planning and building a career, all without having to worry about student loans. Did you know that according to Harvard Business Review the Data Scientist is the sexiest job of the 21st century? And for a reason! If "sexy" means having rare qualities that are much in demand, data scientists are already there. They are expensive to hire and, given the very competitive market for their services, difficult to retain. There simply aren't a lot of people with their combination of scientific background and computational and analytical skills. Data Science is all about transforming data into business value using math and algorithms. And needless to say, Python is the must-know programming language of the 21st century. If you are interested in coding and Data Science, then you must know Python to succeed in these industries! Data Science for Beginners is the perfect place to start learning everything you need to succeed. Contained within these six essential books are the methods, concepts, and important practical examples to help build your foundation for excelling at the discipline that is shaping the modern world. This 6-in-1 bundle is perfect for programmers, software engineers, project managers and those who just want to keep up with technology. Thanks to the first three books, Python for Beginners, Python for Intermediates and Python Advanced Guide, you will: Master The Basic Concepts Of Python Programming and set your way up to code like a pro (don't stress if you have no clue at first, everything you need is included) Find A Step-By-Step Guide On How To Use Python and basically do nothing, rather than follow the instructions (so simple) Build upon the fundamentals with advanced techniques like Object-Oriented Programming (OOP), Inheritance, and Polymorphism Catch On Great Ways To Develop Your Website Creation Skills and get paid to do things while you drink your coffee (that easy) Learn How To Build Arbitrary and Optional Arguments and find the best way to handle a circumstance (not many people know these!) Apply Storing Functions and simultaneously improve the code, and decompose complex problems into simpler pieces And There's Much More! In the last three books, Python for Data Analysis, Python Machine Learning and Python Data Science, you will: Discover the importance of Data Science and how to use it in real-world situations Learn the 5 steps of Data Analysis so you can comprehend and analyze data sitting right in front of you Increase your income by learning a new, valuable skill that only a select handful of people take the time to learn Discover how companies can improve their business through practical examples and explanations And Much More! This bundle is essential for anyone who wants to become proficient in Python or study Data Science. Jump to the next level by learning new valuable skills and developing a data-driven approach! Order Your Copy of the Bundle and Start Your New Career Path Today!

Summary Algorithms of the Intelligent Web, Second Edition teaches the most important approaches to algorithmic web data analysis, enabling you to create your own machine learning applications that crunch, munge, and wrangle data collected from users, web applications, sensors and website logs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Valuable insights are buried in the tracks web users leave as they navigate pages and applications. You can uncover them by using intelligent algorithms like the ones that have earned Facebook, Google, and Twitter a place among the giants of web data pattern extraction. About the Book Algorithms of the Intelligent Web, Second Edition teaches you how to create machine learning applications that crunch and wrangle data collected from users, web applications, and website logs. In this totally revised edition, you'll look at intelligent algorithms that extract real value from data. Key machine learning concepts are explained with code examples in Python's scikit-learn. This book guides you through algorithms to capture, store, and structure data streams coming from the web. You'll explore recommendation engines and dive into classification via statistical algorithms, neural networks, and deep learning. What's Inside Introduction to machine learning Extracting structure from data Deep learning and neural networks How recommendation engines work About the Reader Knowledge of Python is assumed. About the

Authors Douglas McIlwraith is a machine learning expert and data science practitioner in the field of online advertising. Dr. Haralambos Marmanis is a pioneer in the adoption of machine learning techniques for industrial solutions. Dmitry Babenko designs applications for banking, insurance, and supply-chain management. Foreword by Yike Guo. Table of Contents Building applications for the intelligent web Extracting structure from data: clustering and transforming your data Recommending relevant content Classification: placing things where they belong Case study: click prediction for online advertising Deep learning and neural networks Making the right choice The future of the intelligent web Appendix - Capturing data on the web This book comprehensively covers the topic of data science. Data science is an umbrella term that encompasses data analytics, data mining, machine learning, and several other related disciplines. This book synthesizes both fundamental and advanced topics of a research area that has now reached maturity. The chapters of this book are organized into three sections: The first section is an introduction to data science. Starting from the basic concepts, the book will highlight the types of data, its use, its importance and issues that are normally faced in data analytics. Followed by discussion on wide range of applications of data science and widely used techniques in data science. The second section is devoted to the tools and techniques of data science. It consists of data pre-processing, feature selection, classification and clustering concepts as well as an introduction to text mining and opinion mining. And finally, the third section of the book focuses on two programming languages commonly used for data science projects i.e. Python and R programming language. Although this book primarily serves as a textbook, it will also appeal to industrial practitioners and researchers due to its focus on applications and references. The book is suitable for both undergraduate and postgraduate students as well as those carrying out research in data science. It can be used as a textbook for undergraduate students in computer science, engineering and mathematics. It can also be accessible to undergraduate students from other areas with the adequate background. The more advanced chapters can be used by postgraduate researchers intending to gather a deeper theoretical understanding.

***** Buy now (Will soon return to \$14.99 + Special Offer Below) ***** Free Kindle eBook for customers who purchase the print book from Amazon Are you thinking of learning more about Data Science From scratch by using R? Data science is the practice of transforming data into knowledge, and R is the most popular open-source programming language used for data science. In this book, we will learn how to use the principles of data science and the R programming language to answer day-to-day questions about your data. As an overview of this book, first, we'll learn about the practice of data science and the R programming language. Then, we'll learn how to work with data to create descriptive statistics, data visualizations, and statistical models. Finally, we'll learn how to handle big data, make predictions with machine learning, and deploy our applications into production. By the end of this book, you'll have the skills necessary to use R and the principles of data science to transform your data into actionable insight. Several Visual Illustrations and Examples Instead of tough math formulas, this book contains several graphs and images which detail all important R and data science concepts and their applications. Target Users The book designed for a variety of target audiences. The most suitable users would include: Beginners who want to approach data science, but are too afraid of complex math to start Newbies in computer science techniques and machine learning Professionals in data science and social sciences Professors, lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians, especially those focusing on data science What's Inside This Great Book? Introduction Why Data Science? Basics of R Programming with respect to Data Science Essentials of R Programming R Functions Working With Data in R Practical Using R in data science to classify vehicles according to their fuel efficiency Creating descriptive Statistics using R Handling Big Data Machine Learning with R

Deploying into Production Spatial Visualization with ggplot2 Logistic Regression Random forest Support Vector Machine(SVM) using R Frequently Asked Questions Q: Is this book for me and do I need programming experience?A: If you want to smash Data Science from scratch, this book is for you. Little programming experience is required. If you already wrote a few lines of code and recognize basic programming statements, you'll be OK.Q: Can I loan this book to friends?A: Yes. Under Amazon's Kindle Book Lending program, you can lend this book to friends and family for a duration of 14 days.Q: Does this book include everything I need to become a data science expert?A: Unfortunately, no. This book is designed for readers taking their first steps in data science and further learning will be required beyond this book to master all aspects of data science.Q: Can I have a refund if this book is not fitted for me?A: Yes, Amazon refund you if you aren't satisfied, for more information about the amazon refund service please go to the amazon help platform. We will also be happy to help you if you send us an email at customer_service@datasciences-book.com.

***** BUY NOW (will soon return to 24.95 \$) *****Are you thinking of learning Statistics fundamentals for Data Science? If you are looking for a beginner book to master Statistics Learning fundamentals for Data Science, this book is for you. Who Should Read this Book?Aspiring data scientists who are looking forward to begin their journey in the vast field of data science. People who are seeking to learn and understand data analysis from its very deep-rooted basics have found the right book. Clear basic concepts make the foundation of a good knowledge base, which ultimately helps to gain sharp insights into this topic further. This book will give you the practical exposure along with its theory explained comprehensively. This book is the perfect compilation for beginners as well as intermediate learners who intend to learn statistics and data analysis techniques. Why this book?This book will guide you step by step from the very basics to how you can start your own data science project. The best part about this book is its structure, it's structured in such a way that integrates practicals along with its theory to make the concepts easily understandable. It will help you to understand a basic concept like mean, median, mode, scatter plot and histograms. Thus ensures no prior knowledge is required to start learning from this book. The content of this book is specially designed to encompass all the concepts that come under the domain of data science. This book will guide you through the problems and concepts of statistics. What is statistics?Most of the people think statistics in data science is something different and more profound than what we learnt in our mathematics classes but it's not. It is the same concept of data collection followed by its organization, interpretation and presentation. Statistics is the key to develop a desired model in machine learning. Using statistics you can convert your raw meaningless chunk of data to a well-structured informative data. What's Inside This Book? Probability & Bayes Theorem, Data Exploration and Analysis Structured Data Estimates Mean and Median Estimates Variability Exploring the data distribution Percentiles and Boxplots Frequency table and Histograms Density Estimates Mode Correlation Categorical and Numeric Data Visualizing Multiple Variables Regression Analysis Clustering Analysis Statistical tests and ANOVA Classification Naïve Bayes Discriminant Analysis Linear regression Logistic Regression Statistical Machine Learning K_Nearest Neighbor Trees Models Bagging and Random Forest Boosting algorithms Principal Component Analysis K_means Clustering Hierarchical Clustering Model Based Clustering Sources & References From AI Sciences PublishingOur books may be the best one for beginners; it's a step-by-step guide for any person who wants to start learning Artificial Intelligence and Data Science from scratch. Readers are advised to adopt a hands on approach, which would lead to better mental representations.Frequently Asked QuestionsQ: Does this book include everything I need to become a data analyst expert?A: Unfortunately, no. This book is designed for readers taking their first steps in statistics and data science and further learning will be required beyond this book to master all aspects. Q: Can I have a refund if this book doesn't fit for me?A: Yes, Amazon refund you if you aren't satisfied,

for more information about the amazon refund service please go to the amazon help platform. ***** MONEY BACK GUARANTEE BY AMAZON *****

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Data science libraries, frameworks, modules, and toolkits are great for doing data science, but they're also a good way to dive into the discipline without actually understanding data science. With this updated second edition, you'll learn how many of the most fundamental data science tools and algorithms work by implementing them from scratch. If you have an aptitude for mathematics and some programming skills, author Joel Grus will help you get comfortable with the math and statistics at the core of data science, and with hacking skills you need to get started as a data scientist. Today's messy glut of data holds answers to

questions no one's even thought to ask. This book provides you with the know-how to dig those answers out.

Create, deploy, and test your Python applications, analyses, and models with ease using Streamlit Key Features Learn how to showcase machine learning models in a Streamlit application effectively and efficiently Become an expert Streamlit creator by getting hands-on with complex application creation Discover how Streamlit enables you to create and deploy apps effortlessly Book Description Streamlit shortens the development time for the creation of data-focused web applications, allowing data scientists to create web app prototypes using Python in hours instead of days. Getting Started with Streamlit for Data Science takes a hands-on approach to helping you learn the tips and tricks that will have you up and running with Streamlit in no time. You'll start with the fundamentals of Streamlit by creating a basic app and gradually build on the foundation by producing high-quality graphics with data visualization and testing machine learning models. As you advance through the chapters, you'll walk through practical examples of both personal data projects and work-related data-focused web applications, and get to grips with more challenging topics such as using Streamlit Components, beautifying your apps, and quick deployment of your new apps. By the end of this book, you'll be able to create dynamic web apps in Streamlit quickly and effortlessly using the power of Python. What you will learn Set up your first development environment and create a basic Streamlit app from scratch Explore methods for uploading, downloading, and manipulating data in Streamlit apps Create dynamic visualizations in Streamlit using built-in and imported Python libraries Discover strategies for creating and deploying machine learning models in Streamlit Use Streamlit sharing for one-click deployment Beautify Streamlit apps using themes, Streamlit Components, and Streamlit sidebar Implement best practices for prototyping your data science work with Streamlit Who this book is for This book is for data scientists and machine learning enthusiasts who want to create web apps using Streamlit. Whether you're a junior data scientist looking to deploy your first machine learning project in Python to improve your resume or a senior data scientist who wants to use Streamlit to make convincing and dynamic data analyses, this book will help you get there! Prior knowledge of Python programming will assist with understanding the concepts covered.

In *Zen & de kunst van het motoronderhoud* verhaalt Robert M. Pirsig over de motorfietstocht die de hoofdfiguur en zijn elf jaar oude zoon Chris een zomermaand lang van Minnesota naar Californië maken. Het is het spannende en wanhopige relaas van een vader en een zoon die bevangen worden door een steeds ingrijpender krankzinnigheid. *Zen & de kunst van het motoronderhoud* is een van de belangrijkste en invloedrijkste boeken van de afgelopen halve eeuw. Het is een persoonlijke en filosofische zoektocht naar de fundamentele vragen van het bestaan, en een lucide bespiegeling over hoe wij beter zouden kunnen leven.

In particular, chapters focus on data science, big data, high-performance computing, and Cloud computing environments. In addition, this book presents novel algorithms and literature reviews that will guide current and new researchers who work with load balancing, scheduling, and allocation problems. Een psycholoog beleeft het concentratiekamp & een inleiding tot de logotherapie -- on cover.

*****Free eBook for customers who purchase the print book from Amazon*****

Are you thinking of learning data science with easiest way (For Beginners)? If you are looking for a complete introduction to data science, this book is for you. After his great success with his first book "Data Analysis from Scratch with Python", Peters Morgan publish this book focusing now in data science and machine learning. Practitioners consider it as the easiest guide ever written in this domain. From AI Sciences Publisher Our books may be the best one for beginners; it's a step-by-step guide for any person who wants to start learning Artificial Intelligence and Data Science from scratch. It will help you in preparing a solid foundation and learn any other high-level courses. To get the most out of the concepts that would be covered, readers are advised to adopt hands on approach, which would lead to better mental representations. Step By Step Guide and Visual Illustrations and Examples This book is an introduction to the main concepts of data science explained with easiest examples. Peters Morgan focus on the practical aspects of using data science and machine learning algorithms, rather than the math behind them. Target Users Target Users The book is designed for a variety of target audiences. The most suitable users would include: Beginners who want to approach data science, but are too afraid of complex math to start Newbies in computer science techniques and data science Professionals in data science and social sciences Professors, lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians, especially those focusing on data science What's Inside This Book? Introduction Statistics Probability Bayes' Theorem and Naïve Bayes Algorithm Asking the Right Question Data Acquisition Data Preparation Data Exploration Data Modelling Data Presentation Supervised Learning Algorithms Unsupervised Learning Algorithms Semi-supervised Learning Algorithms Reinforcement Learning Algorithms Overfitting and Underfitting Correctness The Bias-Variance Trade-off Feature Extraction and Selection K-Nearest Neighbors Naive Bayes Simple and Multiple Linear Regression Logistic Regression GLM models Decision Trees and Random forest Perceptrons Backpropagation Clustering Natural Language Processing Frequently Asked Questions Q: Is this book for me and do I need programming experience? A: No programming experience is required. This book is an introduction to data science without any type of programming. Q: Does this book include everything I need to become a data science expert? A: Unfortunately, no. This book is designed for readers taking their first steps in data science and machine learning and further learning will be required beyond this book to master

all aspects.Q: Can I loan this book to friends?A: Yes. Under Amazon's Kindle Book Lending program, you can lend this book to friends and family for a duration of 14 days.Q: Can I have a refund if this book is not fitted for me?A: Yes, Amazon refund you if you aren't satisfied, for more information about the amazon refund service please go to the amazon help platform. We will also be happy to help you if you send us an email at contact@aisciences.net.

Stel je een wereld voor waarin jouw telefoon niet goed in je hand past, een voorgeschreven medicijn voor jouw lichaam verkeerd is en de eindeloze uren die je elke week werkt niet erkend of gewaardeerd worden. Komt iets hiervan je bekend voor? Grote kans dat je een vrouw bent. Onzichtbare vrouwen toont hoe in een wereld die grotendeels voor mannen is ingericht de halve bevolking systematisch genegeerd wordt. Het boek onthult de 'genderdatakloof' die wordt veroorzaakt door eeuwige, consequente discriminatie van vrouwen. Caroline Criado Perez brengt voor het eerst een indrukwekkend aantal wereldwijde casestudy's, verhalen en nieuw onderzoek samen. Van overheidsbeleid en medisch onderzoek tot technologie, werkplekken, stadsplanning en de media - Onzichtbare vrouwen onthult de verborgen manieren waarop vrouwen vergeten worden en de impact van die uitsluiting op hun gezondheid en welzijn. Een krachtig en prikkelend boek dat je kijk op de wereld voorgoed verandert. Caroline Criado Perez (1984) is journalist en gelauwerd activist. Zij werd in 2017 beroemd doordat er dankzij haar oproep een beeld van Jane Austen op het Engelse 10 pond-biljet werd geplaatst. Zo voorkwam zij dat er, naast de koningin, alleen mannen op de biljetten zouden staan. Criado Perez woont in Londen.

'Onzichtbare vrouwen is een doorbraak; een compromisloos bombardement van droevige, boze, slechte en grappige feiten waarmee het op briljante wijze een onweerlegbare zaak aanspant. (...) Dit boek zou op het nachtkasje van iedere beleidsmaker, politicus en manager moeten liggen.' THE TIMES 'Een uitdagend, onmisbaar boek.' PUBLISHERS WEEKLY 'In heldere taal bouwt de auteur een sterke zaak voor grotere inclusiviteit, met een zeer doordachte en verrassend humoristische kijk op geïnstitutionaliseerde bevoorrechting en genderdatakloven. Voor wie suggereert dat gender geen rol meer speelt is dit boek, dat een groot publiek zal aanspreken, een gedegen correctie.' KIRKUS REVIEWS 'Een strijdkreet om terug te vechten.' THE SUNDAY TIMES 'Een briljant boek dat de wereld waarin alles is ontworpen voor mannen bekritiseert. (...) Boordevol praktische informatie voor hen die het patriarchaat willen ontmantelen.' THE IRISH TIMES

Go from messy, unstructured artifacts stored in SQL and NoSQL databases to a neat, well-organized dataset with this quick reference for the busy data scientist. Understand text mining, machine learning, and network analysis; process numeric data with the NumPy and Pandas modules; describe and analyze data using statistical and network-theoretical methods; and see actual examples of data analysis at work. This one-stop solution covers the essential data science you need in Python. Data science is one of the fastest-growing disciplines in

terms of academic research, student enrollment, and employment. Python, with its flexibility and scalability, is quickly overtaking the R language for data-scientific projects. Keep Python data-science concepts at your fingertips with this modular, quick reference to the tools used to acquire, clean, analyze, and store data. This one-stop solution covers essential Python, databases, network analysis, natural language processing, elements of machine learning, and visualization. Access structured and unstructured text and numeric data from local files, databases, and the Internet. Arrange, rearrange, and clean the data. Work with relational and non-relational databases, data visualization, and simple predictive analysis (regressions, clustering, and decision trees). See how typical data analysis problems are handled. And try your hand at your own solutions to a variety of medium-scale projects that are fun to work on and look good on your resume. Keep this handy quick guide at your side whether you're a student, an entry-level data science professional converting from R to Python, or a seasoned Python developer who doesn't want to memorize every function and option. What You Need: You need a decent distribution of Python 3.3 or above that includes at least NLTK, Pandas, NumPy, Matplotlib, Networkx, SciKit-Learn, and BeautifulSoup. A great distribution that meets the requirements is Anaconda, available for free from www.continuum.io. If you plan to set up your own database servers, you also need MySQL (www.mysql.com) and MongoDB (www.mongodb.com). Both packages are free and run on Windows, Linux, and Mac OS.

We're living in a digital world. Most of our global economy is digital and the sheer volume of data is stupendous. It's 2020 and we're living in the future. Data Scientist is one of the hottest job on the market right now. Demand for data science is huge and will only grow, and it seems like it will grow much faster than the actual number of data scientists. So if you want to make a career change and become a data scientist, now is the time. This book will guide you through the process. From my experience of working with multiple companies as a project manager, a data science consultant or a CTO, I was able to see the process of hiring data scientists and building data science teams. I know what's important to land your first job as a data scientist, what skills you should acquire, what you should show during a job interview.

Learn Data Science NOW. Stop asking yourself where and how to start. Keep reading and find out how this book can help you with your journey. Are you afraid not to understand the technical language of data science? If so, let me tell you something. We all have to start somewhere. Approaching data science can be overwhelming, not if you have in your hands the right tools since day one. Once you start, I can guarantee you, you will want to learn more and more. Data science is an interdisciplinary subject that brings together three different fields of study. All three fields lie at the intersection of business intelligence and big data. More specifically this book will take you through: Which specific tools and analysis you need to know Various aspects involved in Data Mining Types,

Quality and Data Preprocessing Things you must know for machine learning to be successful Utilizations and Procedure of Data Science How to exactly set up the appropriate environment for your machine learning needs....and much more!! Even if you never approached Data Science before, you now have the chance to deeply understand every concept and become more confident in what you want to achieve next. Data Science from Scratch has been written thinking of your needs and how to help you get started. The more you wait, the harder it gets. What are you waiting for? Scroll to the top and select on the right the BUY NOW with 1-Clickbutton.

This open access book explores ways to leverage information technology and machine learning to combat disease and promote health, especially in resource-constrained settings. It focuses on digital disease surveillance through the application of machine learning to non-traditional data sources. Developing countries are uniquely prone to large-scale emerging infectious disease outbreaks due to disruption of ecosystems, civil unrest, and poor healthcare infrastructure – and without comprehensive surveillance, delays in outbreak identification, resource deployment, and case management can be catastrophic. In combination with context-informed analytics, students will learn how non-traditional digital disease data sources – including news media, social media, Google Trends, and Google Street View – can fill critical knowledge gaps and help inform on-the-ground decision-making when formal surveillance systems are insufficient.

??If you are looking to start a new career that is in high demand, then you need to continue reading!???????? Data scientists are changing the way big data is used in different institutions. Big data is everywhere, but without the right person to interpret it, it means nothing. So where do business find these people to help change their business? You could be that person! It has become a universal truth that businesses are full of data. With the use of big data, the US healthcare could reduce their health-care spending by \$300 billion to \$450 billion. It can easily be seen that the value of big data lies in the analysis and processing of that data, and that's where data science comes in. ?? Grab your copy today and learn ?? ? In depth information about what data science is and why it is important. ? The prerequisites you will need to get started in data science. ? What it means to be a data scientist. ? The roles that hacking and coding play in data science. ? The different coding languages that can be used in data science. ? Why python is so important. ? How to use linear algebra and statistics. ? The different applications for data science. ? How to work with the data through munging and cleaning ? And much more... The use of data science adds a lot of value to businesses, and we will continue to see the need for data scientists grow. As businesses and the internet change, so will data science. This means it's important to be flexible. When data science can reduce spending costs by billions of dollars in the healthcare industry, why wait to jump in? If you want to get started in a new, ever growing, career, don't wait any longer. Scroll up and click the buy now button to

get this book today!

***** Buy now (Will soon return to \$38.95 + Special Offer Below) ***** Free Kindle eBook for customers who purchase the print book from Amazon Are you thinking of learning more about Machine Learning From Scratch by using Python? The overall aim of this book is to give you an application of machine learning techniques with python. Machine learning is a field of Artificial Intelligence that uses algorithms to learn from data and make predictions. This means that we can feed data into an algorithm, and use it to make predictions about what might happen in the future. This book is a practical guide through the basic principles of machine learning, and how to get started with machine learning using Python based on libraries that make machine learning easy to get started with. Several Visual Illustrations and Examples Instead of tough math formulas, this book contains several graphs and images, which detail all-important Machine learning concepts and their applications. This Is a Practical Guide Book This book will help you explore exactly the most important machine learning techniques by using python and real data. It is a step-by-step book. You will build our Machine Learning Models by using Python Target Users The book designed for a variety of target audiences. The most suitable users would include: Beginners who want to approach data science, but are too afraid of complex math to start Newbies in computer science techniques and machine learning Professionals in data science and social sciences Professors, lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians, especially those focusing on data science What's Inside This Great Book? Introduction Using Python for Machine Learning Steps to Solving Machine Learning Problems A Machine Learning Example: Predicting Housing Prices Here's Where Real Machine Learning Starts What If Regression Doesn't Apply? How to Improve Your Model's Performance How to Improve Your Model's Performance Neural Networks & Deep Learning The Future of Machine Learning Glossary on Important Machine Learning Terms Sources & References Bonus Chapter: Anaconda Setup & Python Crash Course Frequently Asked Questions Q: Is this book for me and do I need programming experience? A: If you want to smash Data Science from scratch, this book is for you. Little programming experience is required. If you already wrote a few lines of code and recognize basic programming statements, you'll be OK. Q: Can I loan this book to friends? A: Yes. Under Amazon's Kindle Book Lending program, you can lend this book to friends and family for a duration of 14 days. Q: Does this book include everything I need to become a data science expert? A: Unfortunately, no. This book is designed for readers taking their first steps in data science and further learning will be required beyond this book to master all aspects of data science. Q: Can I have a refund if this book is not fitted for me? A: Yes, Amazon refund you if you aren't satisfied, for more information about the amazon refund service please go to the amazon help platform. will also be happy to help you if you send us an email at customer_service@datasciences-book.com.

Python programming language is an open source programming language which can be used under different operating system. Python programming redefined the programming concepts with its important features like flexibility, adaptability and reusability of codes. Python programming language has numerous libraries or modules which helps the programmer to save their time. The book starts with the overview of basic Python topics such as data structures, data types, conditions and controls, functions, lists, file handling and handling external datasets and database connections. The book also covers the topics in data science such as graphical and chart visualization, statistical modeling, text mining and machine learning algorithms. The book uses popular libraries of Python like matplotlib, scikit-learn and numpy, to perform graphical and machine learning related tasks. Users are encouraged to refer to the author's book on "Machine Learning: An overview with the help of R software package" (ISBN- 978-1790122622) if they are familiar with R software package which is also an open source package The book requires users to download the Python version 3.0 and any of the Integrated Development Environments (IDE) such as Licolipse, Wing,PyCharm and Eric. Editor International Journal of Statistics and Medical Informatics www.ijsmi.com/book.php <https://www.amazon.com/dp/1708620281>(Paper Back) <https://www.amazon.com/DP/B081K1SD4K> (e-Book)

*****Free eBook for customers who purchase the print book from Amazon***** Are you thinking of becoming a data analyst using Python? If you are looking for a complete guide to data analysis using Python language and its library that will help you to become an effective data scientist, this book is for you. From AI Sciences Publisher Our books may be the best one for beginners; it's a step-by-step guide for any person who wants to start learning Artificial Intelligence and Data Science from scratch. It will help you in preparing a solid foundation and learn any other high-level courses. To get the most out of the concepts that would be covered, readers are advised to adopt hands on approach, which would lead to better mental representations. Step By Step Guide and Visual Illustrations and Examples The Book give complete instructions for manipulating, processing, cleaning, modeling and crunching datasets in Python. This is a hands-on guide with practical case studies of data analysis problems effectively. You will learn pandas, NumPy, IPython, and Jupiter in the Process. Target Users This book is a practical introduction to data science tools in Python. It is ideal for analyst's beginners to Python and for Python programmers new to data science and computer science. Instead of tough math formulas, this book contains several graphs and images. What's Inside This Book? Introduction Why Choose Python for Data Science & Machine Learning Prerequisites & Reminders Python Quick Review Overview & Objectives A Quick Example Getting & Processing Data Data Visualization Supervised & Unsupervised Learning Regression Simple Linear Regression Multiple Linear Regression Decision Tree Random Forest Classification Logistic Regression K-Nearest Neighbors Decision Tree Classification Random Forest Classification Clustering Goals & Uses of Clustering K-Means Clustering Anomaly Detection Association Rule Learning Explanation Apriori Reinforcement Learning What is Reinforcement Learning Comparison with Supervised & Unsupervised Learning Applying Reinforcement Learning Neural Networks An Idea of How the Brain Works Potential & Constraints

Here's an Example Natural Language Processing Analyzing Words & Sentiments Using NLTK Model Selection & Improving Performance Sources & References Frequently Asked Questions Q: Is this book for me and do I need programming experience? A: if you want to smash Python for data analysis, this book is for you. Little programming experience is required. If you already wrote a few lines of code and recognize basic programming statements, you'll be OK. Q: Does this book include everything I need to become a data science expert? A: Unfortunately, no. This book is designed for readers taking their first steps in data analysis and further learning will be required beyond this book to master all aspects. Q: Can I have a refund if this book is not fitted for me? A: Yes, Amazon refund you if you aren't satisfied, for more information about the amazon refund service please go to the amazon help platform. We will also be happy to help you if you send us an email at contact@aisciences.net. AI Sciences Company offers you a free eBooks at <http://aisciences.net/free/>

The Routledge Handbook of Language and Science provides a state-of-the-art volume on the language of scientific processes and communications. This book offers comprehensive coverage of socio-cultural approaches to science, as well as analysing new theoretical developments and incorporating discussions about future directions within the field. Featuring original contributions from an international range of renowned scholars, as well as academics at the forefront of innovative research, this handbook: identifies common objects of inquiry across the areas of rhetoric, sociolinguistics, communication studies, science and technology studies, and public understanding of science; covers the four key themes of power, pedagogy, public engagement, and materiality in relation to the study of scientific language and its development; uses qualitative and quantitative approaches to demonstrate how humanities and social science scholars can go about studying science; details the meaning and purpose of socio-cultural approaches to science, including the impact of new media technologies; analyses the history of the field and how it positions itself in relation to other areas of study. Ushering the study of language and science toward a more interdisciplinary, diverse, communal and ecological future, The Routledge Handbook of Language and Science is an essential reference for anyone with an interest in this area.

De 26-jarige Jean Louise Finch – ‘Scout’ – vertrekt vanuit New York om haar vader Atticus in Maycomb, Alabama te bezoeken. Tegen de achtergrond van de spanningen rond de burgerrechten en de politieke strijd in het zuiden van Amerika, ervaart Jean Louise een bitterzoete thuiskomst wanneer ze de waarheid leert over haar familie, haar geboortestad en de mensen die ze liefheeft. Herinneringen uit haar jeugd komen bovendrijven en haar waarden en overtuigingen worden op de proef gesteld. Vele, inmiddels iconische, personages uit Spaar de spotvogel keren terug in Ga heen, zet een wachter, dat een perfect portret schetst van een jonge vrouw en haar wereld die beide een pijnlijke, maar noodzakelijke verandering doormaken. Ga heen, zet een wachter werd halverwege de jaren vijftig geschreven en is een onvergetelijke roman, vol wijsheid, menselijkheid, passie en humor. Een ontroerend boek dat niet alleen een prachtig tijdsbeeld oproept, maar ook relevant is voor onze huidige tijd. Het bevestigt de voortdurende kracht van Spaar de spotvogel en geeft tegelijkertijd extra diepte en een nieuwe betekenis aan deze Amerikaanse klassieker.

"This book is for students or anyone, with limited or no prior programming, statistics, and data analytics knowledge. This short guide is ideal for absolute beginners, or

anyone who wants to acquire a basic working knowledge of data science. It is an excellent guide if you want to learn about the principals of data science from scratch, in just a few hours. The author discussed everything that you need to know about data science. First, you are guided to learn the meaning of data science. The history of data science has been discussed to help you know how people came to realize that data is a rich source of knowledge and intelligence. The theories underlying data science have been discussed. Examples include decision and estimation theories. The author discussed the various machine learning algorithms used in data science and the various steps one has to undergo when performing data science tasks, from data collection to data presentation and visualization. The author helps you to know the various ways through which you can apply data science in your business for increased profits. A simple language has been used to ensure ease of understanding, especially for beginners." --

With the reinvigoration of neural networks in the 2000s, deep learning is now paving the way for modern machine learning. This practical book provides a solid foundation in how deep learning works for data scientists and software engineers with a background in machine learning. Author Seth Weidman shows you how to implement multilayer neural networks, convolutional neural networks, and recurrent neural networks from scratch. Using these networks as building blocks, you'll learn how to build advanced architectures such as image captioning and Neural Turing machines (NTMs). You'll also explore the math behind the theories.

Data science addresses the need to extract knowledge and information from data volumes, often from real-time sources in a wide variety of disciplines such as astronomy, bioinformatics, engineering, science, medicine, social science, business, and the humanities. The range and volume of data sources has increased enormously over time, particularly those generating real-time data. This has posed additional challenges for data management and data analysis of the data and effective representation and display. A wide range of application areas are able to benefit from the latest visual tools and facilities. Rapid analysis is needed in areas where immediate decisions need to be made. Such areas include weather forecasting, the stock exchange, and security threats. In areas where the volume of data being produced far exceeds the current capacity to analyze all of it, attention is being focussed how best to address these challenges. Optimum ways of addressing large data sets across a variety of disciplines have led to the formation of national and institutional Data Science Institutes and Centers. Being driven by national priority, they are able to attract support for research and development within their organizations and institutions to bring together interdisciplinary expertise to address a wide variety of problems. Visual computing is a set of tools and methodologies that utilize 2D and 3D images to extract information from data. Such methods include data analysis, simulation, and interactive exploration. These are analyzed and discussed.

Onze gegevens worden gebruikt om ons te bespioneren en om ons dingen te verkopen die we niet willen en ook niet nodig hebben. Maar met de enorme hoeveelheid gegevens die we op internet achterlaten ('big data') is nog iets veel interessanter te doen. Ons gedrag online, wanneer we ons onbespied wanen, onthult wie we echt zijn. Als beheerder van een datingsite beschikt Rudder over een schat aan informatie over wat we leuk vinden, met wie we praten, wat we daarbij drinken en hoe laat we naar bed

gaan. Het is een nieuwe manier om psychologisch onderzoek te doen, veel effectiever dan de traditionele vragenlijst, waarbij we ons altijd beter voordoen dan we zijn. Het is misschien even slikken, maar Christian Rudder laat zien dat Facebook, Google en OkCupid ons beter kennen dan onze beste vrienden. Rudder is een geestige reisgids door de jungle van menselijk gedrag.

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