

Mastering Python For Data Science By Samir Madhavan

Python Made Easy: Beginners Guide to Programming and Data Analysis using Python Get comprehensive learning of Python Programming starting from the very basics and going up to utilizing python libraries for data analysis and Visualization. Based on the author's journey to master Python, this book will help you to quickly start with writing programs and solving your problems using Python. It provides an ideal and elegant way to start learning Python, both for a newcomer to the programming world and a professional developer expert in other languages. This book comes loaded with illustrations and real-life examples. It gives you exercises which challenge you to refresh your conceptual clarity and write better codes. It is super easy to follow and will work as a self-paced tutorial to get you started with the latest and best in Python. All the advanced Python features to date are included. • Get to know the history, present, and future of Data Science • Get introduced to the basics of Computer Programming • Explore the exciting world of Python using Anaconda • Learn how to install and use Python on your computer • Create your Variables, Objects and learn Syntax of operations • Explore Python's built-in object types like Lists, dictionaries, Tuples, Strings and sets • Learn to make your codes reusable by using functions • Organize your codes, functions and other objects into larger components with Modules • Explore Classes – the Object-Oriented Programming tool for elegant codes • Write complex codes and learn how to handle Errors and Exceptions • Learn about NumPy arrays and operations on them • Explore data analysis using pandas on a real-life data set • Dive into the exciting world of Visualization with 3 chapters on Visualization and Matplotlib • Experience the Power of What you learnt by 3 projects • Learn to make your own application complete with GUI by using API

Are you ready to learn the fundamentals of the most powerful and popular programming language in the world in just one week or less? Python is the programming language leading the forefront of open-source platforms and providing incredible breakthroughs in multiple industries. Jump on the trend and increase your skills and salary by learning how to use Python. "Python Programming" consists of five incredibly important books to help you master Python through practical examples, Data Analysis, Machine Learning and Data Science. By learning this essential programming language, you will open tons of doors for both your personal and professional life. With these books in your hands, you will: Learn the basics of Python from scratch - perfect for beginners who need a simple and quick introduction to the language Build upon the basics with advanced techniques and practices such as Object-Oriented Programming, Inheritance, and Polymorphism Master Python in just a few weeks through practical examples and applications and simple explanations Discover the concepts and theory of Python to solidify your understanding of the language and build a strong foundation Increase your salary at work or start freelancing with this new in-demand skill you've mastered And Much More! In this bundle, you will receive five essential books for mastering the Python language Python for Beginners, Python Advanced Guide, Python for Data Analysis, Python Machine Learning and Python Data Science. If you're looking to improve your programming skills or break into programming as a beginner, these books are extremely valuable and helpful to get you started. What are you waiting for? Order Your Copy of the Bundle and Start Mastering Python Today!

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Life scientists today urgently need training in bioinformatics skills. Too many bioinformatics programs are poorly written and barely maintained--usually by students and researchers who've never learned basic programming skills. This practical guide shows postdoc bioinformatics professionals and students how to exploit the best parts of Python to solve problems in biology while creating documented, tested, reproducible software. Ken Youens-Clark, author of *Tiny Python Projects* (Manning), demonstrates not only how to write effective Python code but also how to use tests to write and refactor scientific programs. You'll learn the latest Python features and tools--including linters, formatters, type checkers, and tests--to create documented and tested programs. You'll also tackle 14 challenges in Rosalind, a problem-solving platform for learning bioinformatics and programming. Create command-line Python programs to document and validate parameters Write tests to verify refactor programs and confirm they're correct Address bioinformatics ideas using Python data structures and modules such as Biopython Create reproducible shortcuts and workflows using makefiles Parse essential bioinformatics file formats such as FASTA and FASTQ Find patterns of text using regular expressions Use higher-order functions in Python like filter(), map(), and reduce()

Learn how to use Pandas, the Python library for data and statistical analysis About This Video Know what is needed for Mastering Python Data Analysis with Pandas Understand why is Mastering python data analysis with Pandas really useful Learn how can we Master Python Data Analysis with Pandas In Detail This course is your guide to implementing the more advanced offerings of the popular Pandas library and explains how it can solve real-world problems. After a brief overview of the basics--such as data structures and various data manipulation tasks such as grouping, merging, and reshaping data--this video also teaches you how to manipulate, analyze, and visualize your time-series financial data. You will learn how to apply Pandas to important but simple financial tasks such as modeling portfolios, calculating optimal portfolios based upon risk, and more. This video not only teaches you why Pandas is a great tool for solving real-world problems in quantitative finance, it also takes you meticulously through every step of the way, with practical, real-world examples, especially from the financial domain where Pandas is a popular choice. By the end of this video, you will be an expert in using the Pandas library for any data analysis problem, especially related to finance.

Explore fundamental to advanced Python 3 topics in six steps, all designed to make you a worthy practitioner. This updated version's approach is based on the "six degrees of separation" theory, which states that everyone and everything is a maximum of six steps away and presents each topic in two parts: theoretical concepts and practical implementation using suitable Python 3 packages. You'll start with the fundamentals of Python 3 programming language, machine learning history, evolution, and the system development frameworks. Key data mining/analysis concepts, such as exploratory analysis, feature dimension reduction, regressions, time series forecasting and their efficient implementation in Scikit-learn are covered as well. You'll also learn commonly used model diagnostic and tuning techniques. These include optimal probability cutoff point for class creation, variance, bias, bagging, boosting, ensemble voting, grid search, random search, Bayesian optimization, and the noise reduction technique for IoT data. Finally, you'll review advanced text mining techniques, recommender systems, neural networks, deep learning, reinforcement learning techniques and their implementation. All the code presented in the book will be available in the form of

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iPython notebooks to enable you to try out these examples and extend them to your advantage. What You'll Learn Understand machine learning development and frameworks Assess model diagnosis and tuning in machine learning Examine text mining, natural language processing (NLP), and recommender systems Review reinforcement learning and CNN Who This Book Is For Python developers, data engineers, and machine learning engineers looking to expand their knowledge or career into machine learning area.

Unsure where to get started with coding? Worried that learning a coding language will take too long? Or do you want to impress your friends with the programs you can make from scratch? 4 books are bundled: "Python Beginner's Guide" + "Python 7-Day Crash Course" + "Python Advanced Guide" + "Python for Data Science" to give you maximum benefits. The truth is...Learning a new coding language is not always as easy as it may seem, and it can take months to master it, some beginners are worried that programming is going to be difficult and they give up before trying. You may have a great idea for your website or make your app, but choosing to hire another programmer to do the work, is costly, and if anything ever goes wrong with the program, you still have to pay them. The solution is a complete guide with practical projects and examples that will allow you to finally master the easiest programming language. Python: 4 Books in 1 is going to take the time to teach you, whether you are a total beginner or have worked with some coding in the past, how to handle the Python language and how to make it work for your needs. In no time, you will be able to go from a complete beginner in the world of programming and Python and turn yourself into an expert instead. DOWNLOAD: Python -- 4 Books in 1: Ultimate Beginner's Guide, 7 Days Crash Course, Advanced Guide, and Data Science Inside this book, we are going to spend some time taking a look at the basics that we need on the Python language, before moving into more advanced topics like machine learning and data science. You will learn: Why Python is Considered One of the Best Languages to Learn as a Beginner Easy Step-by-Step Instructions to Install the Python Language A Proven Method to Write your First Program in 7 Days or Less 5 Common Mistakes to Avoid when You Start Coding A Simple Strategies to Write Clean, Understandable and Flexible Code The One Thing You Need to Debug your Codes in Python Practical Exercises to Quickly Get Practice 5 Practical Applications of Data Science The Benefits of Using Python for Data Analysis Most of the books on the market only take a brief look into Python, showing some of the topics but never going deep and showing you how to work on the code. With the help of Python: 4 Books in 1, you will be able to learn more about how coding in this language works, and how even someone with no coding experience can make it work. Whether you're completely new to programming or you are looking for a new language to expand your skills, you will find this book an invaluable tool for mastering programming in Python and solving problems with practical techniques used by data scientists. Would You Like to Know More? Download Now to Master Python Programming! Scroll up and click "BUY NOW with 1-Click" to get your copy now!

Master the world of Python, Data Analysis, Machine Learning and Data Science with this comprehensive 4-in-1 bundle. Do you want to learn more about the amazing world of Data Science? Or are you interested in becoming a Python geek? Then keep reading. Created with the beginner in mind, this powerful bundle delves into the fundamentals behind Python and Data Science,

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from basic code and concepts to complex Neural Networks and data manipulation. Inside, you'll discover everything you need to know to get started with Python and Data Science, and begin your journey to success! In book one, PYTHON FOR BEGINNERS, you will learn: How to install Python What are the different Python Data Types, Variables and Basic Operators Data Structures, Functions and Files Conditional and Loops in Python Object-Oriented Programming (OOP), Inheritance and Polymorphism Essential Programming Tools and Exception Handling An application to Decision Trees And Much More! In book two, PYTHON FOR DATA ANALYSIS, you will learn: What Data Analysis is all about and why businesses are investing in this sector The 5 steps of a Data Analysis Neural Network The 7 Python libraries that make Python one of the best choices for Data Analysis How Data Visualization and Matplotlib can help you to understand the data you are working with. Some of the main industries that are using data to improve their business with 14 real-world applications And Much More! In book three, PYTHON MACHINE LEARNING, you will learn: What is Machine Learning and how it is applied in real-world situations Understanding the differences between Machine Learning, Deep Learning, and Artificial Intelligence Machine learning training models, Regression techniques and Linear Regression in Python How to use Lists and Modules in Python The 12 essential libraries for Machine Learning in Python Artificial Neural Networks And Much More! And in book four, PYTHON DATA SCIENCE, you will learn: What Data Science is all about and why so many companies are using it to give them a competitive edge. Why Python and how to use it to implement Data Science The main Data Structures & Object-Oriented Programming, Functions and Modules in Python with practical codes and exercises The 7 most important algorithms and models in Data Science Data Aggregation, Group Operations, Databases and Data in the Cloud 9 important Data Mining techniques in Data Science And So Much More! Whether you're a complete beginner or a programmer looking to improve his skillset, Data Science for Beginners is your all-in-one solution to mastering the world of Python and Data Science. Would you like to know more? Scroll Up and Click on the BUY NOW Button to Get Your Copy!

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A complete guide for Python programmers to master scientific computing using Python APIs and tools About This Book The basics of scientific computing to advanced concepts involving parallel and large scale computation are all covered. Most of the Python APIs and tools used in scientific computing are discussed in detail The concepts are discussed with suitable example programs Who This Book Is For If you are a Python programmer and want to get your hands on scientific computing, this book is for you. The book expects you to have had exposure to various concepts of Python programming. What You Will Learn Fundamentals and components of scientific computing Scientific computing data management Performing numerical computing using NumPy and SciPy Concepts and programming for symbolic computing using SymPy Using the plotting library matplotlib for data visualization Data analysis and visualization using Pandas, matplotlib, and IPython Performing parallel and high performance computing Real-life case studies and best practices of scientific computing In Detail In today's world, along with theoretical and experimental work, scientific computing has become an important part of scientific disciplines. Numerical calculations, simulations and computer modeling in this day and age form the vast majority of both experimental and theoretical papers. In the scientific method, replication and reproducibility are two important contributing factors. A complete and concrete scientific result should be reproducible and replicable. Python is suitable for scientific computing. A large community of users, plenty of help and documentation, a large collection of scientific libraries and environments, great performance, and good support makes Python a great choice for scientific computing. At present Python is among the top choices for developing scientific workflow and the book targets existing Python developers to master this domain using Python. The main things to learn in the book are the concept of scientific workflow, managing scientific workflow data and performing computation on this data using Python. The book discusses NumPy, SciPy, SymPy, matplotlib, Pandas and IPython with several example programs. Style and approach This book follows a hands-on approach to explain the complex concepts related to scientific computing. It details various APIs using appropriate examples.

If you want to learn Python in one week (or less) and learn it well, with useful applications to Data Analysis, Machine Learning and Data Science, then keep reading. Python is one of the most beloved programming languages in any circle of programmers. Software engineers, hackers, and Data Scientists alike are in love with the versatility that Python has to offer. Besides, the Object-Oriented feature of Python coupled with its flexibility is also one of the major attractions for this language. That's the reason why Python is a perfect fit with Data Analysis, Machine Learning and Data Science. Data is the future. The world of technology as we know it is evolving towards an open-source platform where people share ideas freely. This is seen as the first step towards the decentralization of ideas and eliminating unnecessary monopolies. Therefore, the data, tools, and techniques used in the analysis are easily available for anyone to interpret data sets and get relevant explanations. The goal of this 4-in-1 bundle is simple: explaining everything you need to know to Master Python. With a special emphasis on the main steps that are needed to correctly implement Data Analysis and Machine Learning algorithms, In manuscript one, Python for Beginners, you will learn: How to install Python What are the different Python Data Types and Variables Basic Operators of Python Language Data Structures and

Functions Conditional and Loops in Python And Much More! In manuscript two, Python Advanced Guide, you will master: Object-Oriented Programming (OOP), Inheritance and Polymorphism Essential Programming Tools Exception Handling Working with Files And Much More! In manuscript three, Python for Data Analysis, you will learn: What Data Analysis is all about and why businesses are investing in this sector The 5 steps of a Data Analysis The 7 Python libraries that make Python one of the best choices for Data Analysis Pandas, Jupyter and PyTorch And Much More! In manuscript four, Applications to Data Science, you will understand: How Data Visualization and Matplotlib can help you to understand the data you are working with. Neural Networks Decision Trees What industries are using data to improve their business with 14 real-world applications And So Much More! Where most books about Python programming are theoretical and have few or little practical examples, this book provides lots of simple, step-by-step examples and illustrations that are used to underline key concepts and help improve your understanding. Furthermore, topics are carefully selected to give you broad exposure to Python, while not overwhelming you with too much information. Also, the outputs of ALL the examples are provided immediately so you do not have to wait till you have access to your computer to test the examples. Even if you have never coded before, this is the perfect guide because it breaks down complex concepts into simple steps and in a concise and simple way that fits well with beginners. Regardless of your previous experience, you will learn the steps of Data Analysis, how to implement them, and the most important real-world applications. Would you like to know more? Scroll Up and Click the BUY NOW Button to Get Your Copy!

Python? NLTK? Pandas? gensim? XGBoost? Google Tensorflow? Python? Scikit-learn? Kaggle?

Explore the world of data science through Python and learn how to make sense of data About This Book Master data science methods using Python and its libraries Create data visualizations and mine for patterns Advanced techniques for the four fundamentals of Data Science with Python - data mining, data analysis, data visualization, and machine learning Who This Book Is For If you are a Python developer who wants to master the world of data science then this book is for you. Some knowledge of data science is assumed. What You Will Learn Manage data and perform linear algebra in Python Derive inferences from the analysis by performing inferential statistics Solve data science problems in Python Create high-end visualizations using Python Evaluate and apply the linear regression technique to estimate the relationships among variables. Build recommendation engines with the various collaborative filtering algorithms Apply the ensemble methods to improve your predictions Work with big data technologies to handle data at scale In Detail Data science is a relatively new knowledge domain which is used by various organizations to make data driven decisions. Data scientists have to wear various hats to work with data and to derive value from it. The Python programming language, beyond having conquered the scientific community in the last decade, is now an indispensable tool for the data science practitioner and a must-know tool for every aspiring data scientist. Using Python will offer you a fast, reliable, cross-platform, and mature environment for data analysis, machine learning, and algorithmic problem solving.

nonlinear models representing various financial problems Perform principal component analysis on the DOW index and its components Analyze, predict, and forecast stationary and non-stationary time series processes Create an event-driven backtesting tool and measure your strategies Build a high-frequency algorithmic trading platform with Python Replicate the CBOT VIX index with SPX options for studying VIX-based strategies Perform regression-based and classification-based machine learning tasks for prediction Use TensorFlow and Keras in deep learning neural network architecture Who this book is for If you are a financial or data analyst or a software developer in the financial industry who is interested in using advanced Python techniques for quantitative methods in finance, this is the book you need! You will also find this book useful if you want to extend the functionalities of your existing financial applications by using smart machine learning techniques. Prior experience in Python is required.

Do you wish to develop further your journey to becoming an expert Python programmer and achieve your goals? Are you looking to refine your Python programming skills and build professional grade applications? If so then your search ends here! Learning new skills is a process made from two big components: the first one is just your own will to learn and the second one is a good source of information, and lucky for you, you've come to the right place! Python is a dynamic programming language that, due to its simple but efficient nature, is used in a wide range of domains. While writing Python code is easy, it is challenging to make it readable, reusable and easy to maintain. This third edition on Expert Python Programming will help you overcome this challenge, complete with best practices, necessary and useful tools and standards applied by experienced Python developers. In addition to learning how to implement principles from different programming paradigms, including object-oriented programming, functional programming and event-driven programming, you can learn the specialized components of Python syntax. By the end of the book, you will have become an expert in writing efficient and maintainable Python code. What you will learn getting up to speed with automated ways of deploying your software on remote servers. create useful Python extensions with C, C++, Cython, and CFFI. studying about code management tools, writing clear documentation, and exploring test driven development which will help you write clean code. Explore modern ways of setting up repeatable and consistent development environments Package Python code effectively for community and production use Learn modern syntax elements of Python programming such as f-strings, enums, and lambda functions Write concurrent code in Python Extend and integrate Python with code written in different languages And so much more There are countless books on the market on this topic promising better understanding of the subject and immeasurable success but this carefully sought out guide will teach you the advanced concepts you most definitely need so you can be on your way to becoming a master of the Python programming language. Becoming a Python expert takes time, but over time you'll master this beautiful programming language. It's worth it! Now then, what are you waiting for? Scroll up and click on the 'Buy Now' button and unleash the python programmer in you, today!

- Do you want to learn Python Programming well and fast?
- Are you looking for the best Python for Data Analysis and Analytics course?
- Do you want to learn Data Science and how to leverage Python for it?
- Do want to learn Python Machine Learning and start implementing models?

In this Python Programming Guide book, you will discover:

- What is the Python language, and why you want to learn it.
- Setting up the Python environment and writing your first program.
- Variable types and data structures used in Python, including primitive types and Dictionaries and sets.
- Control flow tools.
- Comparison operators, looping, and if statements.
- Handling exceptions.
- Dealing with modules and functions.
- Object-oriented programming. Includes discussions of advanced ideas like an inheritance.
- And so much more! Click the

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Curious To Know More About Python Programming And Would Like To Go Proficient? Then Learn From The Best Tips and Tricks Laid Down In This Powerful Bundle! Python is the programming language leading the forefront of open-source platforms and providing incredible breakthroughs in multiple industries. Jump on the trend and increase your skills and salary by learning how to use Python. "Python Programming" consists of six incredibly important books to help you master Python through practical examples, exercises, Data Analysis, Machine Learning and Data Science. By learning this essential programming language, you will open tons of doors for both your personal and professional life. 2nd Edition Updated and Expanded with 2 More Manuscripts! This 6-in-1 bundle is perfect for everyone who wants to break into programming as a beginner. In Book 1, Python for Beginners, you will master the basics (first things first): What is Python Python Installation Variables and Data Types Basic Operators Data Structures And Much More! In Book 2, Python for Intermediates, you will learn: Conditional or Decision Statements Lists and Modules Functions in Python Working with Files And Much More! In Book 3, Python Advanced Guide, you will be ready to go through more advanced concepts: Loops in Python Object Oriented Programming (OOP) Exception Handling Essential Programming Tools Practical Codes and Exercises to Use Python And Much More! In Book 4, Python for Data Analysis, you will learn: What is Data Analysis and Why Python is the best programming language for it The 5 steps of Data Analysis that almost nobody implements correctly What are the best Python Libraries, including The PyTorch Library Everything about Pandas How to use Matplotlib for Data Visualization And Much More! In Book 5, Python Machine Learning, you will learn: What is Machine Learning, Concepts & Terms What are the 7 Python Libraries for Machine Learning Machine Learning Training Model Linear Regression and Neural Network with Python And Much More! And finally, in Book 6, Python Data Science, you will learn: Mathematical models and why Python is the best choice to implement them Data Science Algorithms (Logistic Regression, Decision Trees) Data Mining Techniques Real-Worlds Applications Data in the Cloud And So Much More! Programming might require a different approach and logical thinking according to each situation, but... Once you learn the basics, everything else will start slowly falling into its place. And With The Help Of This Essential Guide, Python Coding Will Turn Into A Child's Play For You! Ready For Your Next Project...? ...Then Order Your Copy of the Bundle and Start Learning Python Today!

Leverage the power of Python to clean, scrape, analyze, and visualize your data About This Book Clean, format, and explore your data using the popular Python libraries and get valuable insights from it Analyze big data sets; create attractive visualizations; manipulate and process various data types using NumPy, SciPy, and matplotlib; and more Packed with easy-to-follow examples to develop advanced computational skills for the analysis of complex data Who This Book Is For This course is for developers, analysts, and data scientists who want to learn data analysis from scratch. This course will provide you with a solid foundation from which to analyze data with varying complexity. A working knowledge of Python (and a strong interest in playing with your data) is recommended. What You Will Learn Understand the importance of data analysis and master its processing steps Get comfortable using Python and its associated data analysis libraries such as Pandas, NumPy, and SciPy Clean and transform your data and apply advanced statistical analysis to create attractive visualizations Analyze images and time series data Mine text and analyze social networks Perform web scraping and work with different databases, Hadoop, and Spark Use statistical models to discover patterns in data Detect similarities and differences in data with clustering Work with Jupyter Notebook to produce publication-ready figures to be included in reports In Detail Data analysis is the process of applying logical and analytical reasoning to study each component of data present in the system. Python is a multi-domain, high-level, programming language that offers a range of tools and libraries suitable for all purposes, it has slowly evolved as one of the primary languages for data science. Have you ever imagined

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becoming an expert at effectively approaching data analysis problems, solving them, and extracting all of the available information from your data? If yes, look no further, this is the course you need! In this course, we will get you started with Python data analysis by introducing the basics of data analysis and supported Python libraries such as matplotlib, NumPy, and pandas. Create visualizations by choosing color maps, different shapes, sizes, and palettes then delve into statistical data analysis using distribution algorithms and correlations. You'll then find your way around different data and numerical problems, get to grips with Spark and HDFS, and set up migration scripts for web mining. You'll be able to quickly and accurately perform hands-on sorting, reduction, and subsequent analysis, and fully appreciate how data analysis methods can support business decision-making. Finally, you will delve into advanced techniques such as performing regression, quantifying cause and effect using Bayesian methods, and discovering how to use Python's tools for supervised machine learning. The course provides you with highly practical content explaining data analysis with Python, from the following Packt books: Getting Started with Python Data Analysis. Python Data Analysis Cookbook. Mastering Python Data Analysis. By the end of this course, you will have all the knowledge you need to analyze your data with varying complexity levels, and turn it into actionable insights. Style and approach Learn Python data analysis using engaging examples and fun exercises, and with a gentle and friendly but comprehensive "learn-by-doing" approach. It offers you a useful way of analyzing the data that's specific to this course, but that can also be applied to any other data. This course is designed to be both a guide and a reference for moving beyond the basics of data analysis.

Understand data analysis pipelines using machine learning algorithms and techniques with this practical guide

Key Features*

- Prepare and clean your data to use it for exploratory analysis, data manipulation, and data wrangling*
- Discover supervised, unsupervised, probabilistic, and Bayesian machine learning methods*
- Get to grips with graph processing and sentiment analysis

Book Description

Data analysis enables you to generate value from small and big data by discovering new patterns and trends, and Python is one of the most popular tools for analyzing a wide variety of data. With this book, you'll get up and running using Python for data analysis by exploring the different phases and methodologies used in data analysis and learning how to use modern libraries from the Python ecosystem to create efficient data pipelines. Starting with the essential statistical and data analysis fundamentals using Python, you'll perform complex data analysis and modeling, data manipulation, data cleaning, and data visualization using easy-to-follow examples. You'll then understand how to conduct time series analysis and signal processing using ARMA models. As you advance, you'll get to grips with smart processing and data analytics using machine learning algorithms such as regression, classification, Principal Component Analysis (PCA), and clustering. In the concluding chapters, you'll work on real-world examples to analyze textual and image data using natural language processing (NLP) and image analytics techniques, respectively. Finally, the book will demonstrate parallel computing using Dask.

By the end of this data analysis book, you'll be equipped with the skills you need to prepare data for analysis and create meaningful data visualizations for forecasting values from data.

What you will learn*

- Explore data science and its various process models*
- Perform data manipulation using NumPy and pandas for aggregating, cleaning, and handling missing values*
- Create interactive visualizations using Matplotlib, Seaborn, and Bokeh*
- Retrieve, process, and store data in a wide range of formats*
- Understand data preprocessing and feature engineering using pandas and scikit-learn*
- Perform time series analysis and signal processing using sunspot cycle data*
- Analyze textual data and image data to perform advanced analysis*
- Get up to speed with parallel computing using Dask

Who this book is for

This book is for data analysts, business analysts, statisticians, and data scientists looking to learn how to use Python for data analysis. Students and academic faculties will also find this book useful for learning and teaching Python data analysis using a hands-on approach. A basic understanding of math and working knowledge of the Python

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programming language will help you get started with this book.

Master The World Of Machine Learning And Data Science With This Comprehensive 2-in-1 bundle! If you want to learn more about Machine Learning and Data Science or how to master them with Python quickly and easily, then keep reading. Data Science and Machine Learning are one of the biggest buzzwords in the business world nowadays. Many businesses know the importance of collecting information, but as they can collect so much data in a short period, the real question is: "what is the next step?" Data Science includes all the different steps that you take with the data: collecting and cleaning them, analyzing them, applying Machine Learning algorithms and models, and then presenting your findings from the analysis with some good Data Visualizations. Machines and automation represent a huge part of our daily life. They are becoming part of our experience, and existence. Artificial Intelligence is currently one of the most thriving fields any programmer would wish to delve into, and for a good reason: this is the future! Simply put, Machine Learning is about teaching machines to think and make decisions as we would. The difference between the way machines learn and the way we do is that while for the most part we learn from experiences, machines learn from data. In book one, PYTHON MACHINE LEARNING, you will learn: What is Machine Learning and how it is applied in real-world situations Understanding the differences between Machine Learning, Deep Learning, and Artificial Intelligence Machine learning training models, Regression techniques and Linear Regression in Python How to use Lists and Modules in Python The 12 essential libraries for Machine Learning in Python Artificial Neural Networks And Much More! In book two, PYTHON DATA SCIENCE, you will learn: What Data Science is all about and why so many companies are using it to give them a competitive edge. Why Python and how to use it to implement Data Science The main Data Structures & Object-Oriented Programming, Functions and Modules in Python with practical codes and exercises The 7 most important algorithms and models in Data Science Data Aggregation, Group Operations, Databases and Data in the Cloud 9 important Data Mining techniques in Data Science And So Much More! Where most books only focus on how collecting and cleaning the data, this book goes further, providing guidance on how to perform a proper analysis in order to extract precious information that may be vital for a business. Don't miss the opportunity to master the key points of Machine Learning technology and understand how researchers are breaking the boundaries of Data Science to mimic human intelligence in machines. Even if some Machine Learning concepts and algorithms can appear complex to most computer programming beginners, this book takes the time to explain them in a simple and concise way. Understanding Machine Learning and Data Science is easier than it looks. You just need the right guidance. And this bundle provides all the knowledge you need in a simple and practical way. Regardless of your previous experience, you will learn the techniques to manipulate and process datasets, the principles of Python programming, and its most important real-world applications. Would You Like To Know More? Scroll Up and Click the BUY NOW Button to Get Your Copy!

Markov Models Supervised and Unsupervised Machine Learning: Mastering Data Science & Python Do you want to MASTER Data science? Understand Markov Models and learn the real world application to accurately predict future events. Extend your knowledge of machine learning, python programming & algorithms. What you'll Learn · Mathematics Behind Markov Algorithms · 3 Main Problems Of Markov Models And How To Overcome Them · Uses And Applications For Machine Learning · Python Programming · Speech Recognition · Weather Reporting · The Markov Rule And Markov's Model · Fundamental Axioms Of Statistics And Probability · Solutions · Theories · Artificial Intelligence · Bayesian Inference · Important Tools Used With HMM · And Much, Much, More! The objective of this book is to teach you the essentials at the most fundamental level. You will learn the ins and outs of machine learning, and its real world applications. Also, specifically you will discover practical implementations of Markov Models in python programming. This book offers high value and is the greatest

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investment in your knowledge base you can make that will benefit you in the long run. Why not take this opportunity to take advantage now and get ahead of everyone else? Other books can easily retail for \$100s- \$1000s of dollars! Get equipped with the knowledge you need to advance yourself today at an affordable price. What are you waiting for? Don't miss out on this opportunity! Grab Your Copy Now!

Master the world of Python programming with this ultimate collection. Are you an aspiring or established programmer, and you want to make the most of Python? Are you searching for simple, engaging, and comprehensive beginner's introductions to Python programming, neural networks, and more? Then keep reading! Combining an incredible 537 pages of cutting-edge information, this brilliant collection offers you the ultimate introduction to the world of Python. Learn from programming basics to more advanced concepts, machine learning, data analysis, data science and so much more, this complete bundle will show you how to master this amazing skill with step-by-step instructions. Top 5 Reasons Why You Should Learn Python: Easy to Learn Web Programming Software Development Objected-Oriented Programming (OOP) Artificial Intelligence and Machine Learning In this collection, you'll discover: 1) Learning Python: is a complete and practical guide that will allow you to learn from the basic concepts of python programming to advanced concepts, all in one book, with step by step examples. Installation and configuration on a different OS Basics: variables, strings, list, tuples and more... Conditional Function and Object-oriented programming Many exercises to learn to program And so much more! 2) Python Machine Learning, you'll be taken on an exploration of machine learning systems, neural networks, and complex AI training with Python. History of machine learning The concept of machine learning Mathematical notation, basic terminology, and building machine learning systems Road map to building your machine learning systems And so much more! 3) Machine Learning With Python, you'll break down the details of Python's machine learning capabilities with practical advice and detailed overviews. Terminology and notations for machine learning & python Employing python for machine learning Pandas Jupyter & Ipython And so much more! 4) Python For Data Analysis, you'll learn about the unique and highly-effective tools Python has for analyzing data, sorting information, and drawing conclusions. Python Development Frameworks The origins and evolution of language The Jupyter Widgets Python, data preparation, and the first statistics And so much more! 5) Python Data Science, you'll be taken one step further and uncover the complex world of data science, along with how Python can revolutionize this area and deliver powerful results. Why python works so great for data science The NumPy library and how it's working with Data Science Manipulating Data with the Pandas Library Data Cleaning, Preparation, Aggregation, Group Operations, Time Series And so much more! 6) Python Data Science Handbook, you'll find an explanation of data science with Python and how you can harness this skill for advanced programming. Advanced learning of python for data science Advanced topics of data science Advanced NumPy and pandas for data science Data acquiring for data science Ethics & privacy of big data And so much more! So if you're looking for an all-in-one introduction to the endless possibilities of Python, then this bundle is for you! Ready to begin mastering Python? Scroll up and grab your copy today!

Understand, evaluate, and visualize data About This Book Learn basic steps of data analysis and how to use Python and its packages A step-by-step guide to predictive modeling including tips, tricks, and best practices Effectively visualize a broad set of analyzed data and generate effective results Who This Book Is For This book is for Python Developers who are keen to get into data analysis and wish to visualize their analyzed data in a more efficient and insightful manner. What You Will Learn Get acquainted with NumPy and use arrays and array-oriented computing in data analysis Process and analyze data using the time-series capabilities of Pandas Understand the statistical and mathematical concepts behind predictive analytics algorithms Data

visualization with Matplotlib Interactive plotting with NumPy, Scipy, and MKL functions Build financial models using Monte-Carlo simulations Create directed graphs and multi-graphs Advanced visualization with D3 In Detail You will start the course with an introduction to the principles of data analysis and supported libraries, along with NumPy basics for statistics and data processing. Next, you will overview the Pandas package and use its powerful features to solve data-processing problems. Moving on, you will get a brief overview of the Matplotlib API .Next, you will learn to manipulate time and data structures, and load and store data in a file or database using Python packages. You will learn how to apply powerful packages in Python to process raw data into pure and helpful data using examples. You will also get a brief overview of machine learning algorithms, that is, applying data analysis results to make decisions or building helpful products such as recommendations and predictions using Scikit-learn. After this, you will move on to a data analytics specialization—predictive analytics. Social media and IOT have resulted in an avalanche of data. You will get started with predictive analytics using Python. You will see how to create predictive models from data. You will get balanced information on statistical and mathematical concepts, and implement them in Python using libraries such as Pandas, scikit-learn, and NumPy. You'll learn more about the best predictive modeling algorithms such as Linear Regression, Decision Tree, and Logistic Regression. Finally, you will master best practices in predictive modeling. After this, you will get all the practical guidance you need to help you on the journey to effective data visualization. Starting with a chapter on data frameworks, which explains the transformation of data into information and eventually knowledge, this path subsequently cover the complete visualization process using the most popular Python libraries with working examples This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Getting Started with Python Data Analysis, Phuong Vo.T.H &Martin Czygan Learning Predictive Analytics with Python, Ashish Kumar Mastering Python Data Visualization, Kirthi Raman Style and approach The course acts as a step-by-step guide to get you familiar with data analysis and the libraries supported by Python with the help of real-world examples and datasets. It also helps you gain practical insights into predictive modeling by implementing predictive-analytics algorithms on public datasets with Python. The course offers a wealth of practical guidance to help you on this journey to data visualization

Generate effective results in a variety of visually appealing charts using the plotting packages in Python About This Book Explore various tools and their strengths while building meaningful representations that can make it easier to understand data Packed with computational methods and algorithms in diverse fields of science Written in an easy-to-follow categorical style, this book discusses some niche techniques that will make your code easier to work with and reuse Who This Book Is For If you are a Python developer who performs data visualization and wants to develop existing knowledge about Python to build analytical results and produce some amazing visual display, then this book is for you. A basic knowledge level and understanding of Python libraries is assumed. What You Will Learn Gather, cleanse, access, and map data to a visual framework Recognize which visualization method is applicable and learn best practices for data visualization Get acquainted with reader-driven narratives and author-driven narratives and the principles of perception Understand why Python is an effective tool to be used for numerical computation much

like MATLAB, and explore some interesting data structures that come with it Explore with various visualization choices how Python can be very useful in computation in the field of finance and statistics Get to know why Python is the second choice after Java, and is used frequently in the field of machine learning Compare Python with other visualization approaches using Julia and a JavaScript-based framework such as D3.js Discover how Python can be used in conjunction with NoSQL such as Hive to produce results efficiently in a distributed environment In Detail Python has a handful of open source libraries for numerical computations involving optimization, linear algebra, integration, interpolation, and other special functions using array objects, machine learning, data mining, and plotting. Pandas have a productive environment for data analysis. These libraries have a specific purpose and play an important role in the research into diverse domains including economics, finance, biological sciences, social science, health care, and many more. The variety of tools and approaches available within Python community is stunning, and can bolster and enhance visual story experiences. This book offers practical guidance to help you on the journey to effective data visualization. Commencing with a chapter on the data framework, which explains the transformation of data into information and eventually knowledge, this book subsequently covers the complete visualization process using the most popular Python libraries with working examples. You will learn the usage of Numpy, Scipy, IPython, Matplotlib, Pandas, Patsy, and Scikit-Learn with a focus on generating results that can be visualized in many different ways. Further chapters are aimed at not only showing advanced techniques such as interactive plotting; numerical, graphical linear, and non-linear regression; clustering and classification, but also in helping you understand the aesthetics and best practices of data visualization. The book concludes with interesting examples such as social networks, directed graph examples in real-life, data structures appropriate for these problems, and network analysis. By the end of this book, you will be able to effectively solve a broad set of data analysis problems. Style and approach The approach of this book is not step by step, but rather categorical. The categories are based on fields such as bioinformatics, statistical and machine learning, financial computation, and linear algebra. This approach is beneficial for the community in many different fields of work and also helps you learn how one approach can make sense across many fields Perform advanced data manipulation tasks using pandas and become an expert data analyst. Key Features Manipulate and analyze your data expertly using the power of pandas Work with missing data and time series data and become a true pandas expert Includes expert tips and techniques on making your data analysis tasks easier Book Description pandas is a popular Python library used by data scientists and analysts worldwide to manipulate and analyze their data. This book presents useful data manipulation techniques in pandas to perform complex data analysis in various domains. An update to our highly successful previous edition with new features, examples, updated code, and more, this book is an in-depth guide to get the most out of pandas for data analysis. Designed for both intermediate users as well as seasoned practitioners, you will learn advanced data manipulation techniques, such as multi-indexing, modifying data structures, and sampling your data, which allow for powerful analysis and help you gain accurate insights from it. With the help of this book, you will apply pandas to different domains, such as Bayesian statistics, predictive analytics, and time series analysis using an example-based approach. And not just that; you will

also learn how to prepare powerful, interactive business reports in pandas using the Jupyter notebook. By the end of this book, you will learn how to perform efficient data analysis using pandas on complex data, and become an expert data analyst or data scientist in the process. What you will learn Speed up your data analysis by importing data into pandas Keep relevant data points by selecting subsets of your data Create a high-quality dataset by cleaning data and fixing missing values Compute actionable analytics with grouping and aggregation in pandas Master time series data analysis in pandas Make powerful reports in pandas using Jupyter notebooks Who this book is for This book is for data scientists, analysts and Python developers who wish to explore advanced data analysis and scientific computing techniques using pandas. Some fundamental understanding of Python programming and familiarity with the basic data analysis concepts is all you need to get started with this book.

Become an expert at using Python for advanced statistical analysis of data using real-world examples About This Book- Clean, format, and explore data using graphical and numerical summaries- Leverage the IPython environment to efficiently analyze data with Python- Packed with easy-to-follow examples to develop advanced computational skills for the analysis of complex data Who This Book Is For If you are a competent Python developer who wants to take your data analysis skills to the next level by solving complex problems, then this advanced guide is for you. Familiarity with the basics of applying Python libraries to data sets is assumed. What You Will Learn- Read, sort, and map various data into Python and Pandas- Recognise patterns so you can understand and explore data- Use statistical models to discover patterns in data- Review classical statistical inference using Python, Pandas, and SciPy- Detect similarities and differences in data with clustering- Clean your data to make it useful- Work in Jupyter Notebook to produce publication ready figures to be included in reports In Detail Python, a multi-paradigm programming language, has become the language of choice for data scientists for data analysis, visualization, and machine learning. Ever imagined how to become an expert at effectively approaching data analysis problems, solving them, and extracting all of the available information from your data? Well, look no further, this is the book you want! Through this comprehensive guide, you will explore data and present results and conclusions from statistical analysis in a meaningful way. You'll be able to quickly and accurately perform the hands-on sorting, reduction, and subsequent analysis, and fully appreciate how data analysis methods can support business decision-making. You'll start off by learning about the tools available for data analysis in Python and will then explore the statistical models that are used to identify patterns in data. Gradually, you'll move on to review statistical inference using Python, Pandas, and SciPy. After that, we'll focus on performing regression using computational tools and you'll get to understand the problem of identifying clusters in data in an algorithmic way. Finally, we delve into advanced techniques to quantify cause and effect using Bayesian methods and you'll discover how to use Python's tools for supervised machine learning. Style and approach This book takes a step-by-step approach to reading, processing, and analyzing data in Python using various methods and tools. Rich in examples, each topic connects to real-world examples and retrieves data directly online where possible. With this book, you are given the knowledge and tools to explore any data on your own, encouraging a curiosity befitting all data scientists.

can definitely make the difference in your career. An accurate knowledge of Python can allow you to live off your passion and to work using your creativity... don't you think that this is amazing? However, taking your first steps in the world of programming might be tricky, it's likely to find yourself lost in an ocean of online scattered information and this can significantly slow down your climb. For this reason, I have decided to collect in this book all the basics and I have organized a learning process with a clear and "step by step" methodology, which will take you from being a total newbie to writing your first code and mastering Python up to an excellent level. -To support you in your journey: ?? Each stage is illustrated step by step ?? The book contains dozens of images that will help you verify all the phases ?? The paperback version of the book is 7'x10 ' Big Size, therefore it's user friendly ?Important Notice:The theory is important but ultimately what matters is the PRACTICE, in fact, the best way to learn any new skill is by getting your hands on the project from Day 1! Conscious of this principle, I have structured this guide in order to teach you the theory through simple actions and practical exercises. So you can get started today by relying on this guide and focus solely on a proper learning process, without wasting any further time on fruitless researches. These are just some of the topics covered in this 2 books guide: ? Step by step installation guide (page 17) ? How to make your program interactive (page 49) ? The fundamental data for making the right decisions (page 57) ? Features and templates (page 68) ? The best Python libraries (page 118) ? How to Read and interpret Data in your script (page 147) ? The smart way to Data Manipulation (page 154) ? Practical exercises included ? And Much More! If you want to learn Python, then you are in the right place: Scroll up and click the Buynow button to get started right now! *100% Money Back Guarantee: If you are not satisfied with your purchase, you can return this book to Amazon within 7 days for a refund.

Use PyCharm with fluid efficiency to write idiomatic python code About This Book Understand how PyCharm works and how you can leverage its strength to develop applications quickly Master PyCharm's editor to get a fast workflow Full of examples and illustrations that focus on the practical aspects of using PyCharm Who This Book Is For If you know PyCharm but want to understand it better and leverage its more powerful but less obvious tool set, this is the book for you. Serving as a launch pad for those who want to master PyCharm and completely harness its best features, it would be helpful if you were familiar with some of Python's most prominent tools such as virtualenv and Python's popular docstring formats such as reStructuredText and EpyType. What You Will Learn Understand the internal workings of the IntelliJ Platform Leverage PyCharm's powerful search tools, and learn which ones are the best for you and your workflow Customize PyCharm's enhanced Python interpreter and its inbuilt terminal Develop web applications quickly and easily with different frameworks such as Flask and Django Understand how code completion works in PyCharm for Python and JavaScript In Detail PyCharm is addictive, with powerful and configurable code completion, superb editing tools, top-notch support, diverse plugins, and a vibrant ecosystem to boot. Learning how PyCharm works and maximising the synergy of its powerful tools will help you to rapidly develop applications. From leveraging the power of the editor to understanding PyCharm's internals, this book will give you a comprehensive view of PyCharm and allow you to make your own choices about which workflow and tools are best for you. You will start by getting comfortable with PyCharm and making it look

to master the subject using Java. If you are willing to build efficient data applications in your enterprise environment without changing your existing stack, this book is for you!

What you will learn*

- * Get a solid understanding of the data processing toolbox available in Java
- * Explore the data science ecosystem available in Java and other JVM languages
- * Understand when to use Java and what is best to do outside of Java
- * Deal with the machine learning task at hand and bring the results directly to production
- * Get state-of-the-art performance with xgboost and deeplearning4j
- * Build applications that scale and process large amounts of data in real time

In Detail Java is the language of choice if you want to bring data science to production, thanks to its stability and rich set of libraries. Major big data solutions including Hadoop are written in Java. This book will teach you how to perform data analysis on big data in a much more sophisticated manner. If you are willing to take your data products to enterprise without changing your stack, this book will tell you how to do it with ease. This book will quickly brush up on what you already know about using Java in data science applications and will then dive quickly into the advanced concepts to implement data science in production. The book covers topics such as advanced data science algorithms, preparing tricky data, advanced clustering, regression, classification, prediction, machine learning, and more. We'll teach you how data science can be used effectively to analyze unstructured data and big data. This book will enable you to tackle the problems of advanced visualization, advanced statistics, scaling data science applications, deploying these applications in production, and many more. You will also learn about natural language processing, real-time analytics, deep learning, and neural networks.

Master the world of Python programming with this ultimate collection. Are you an aspiring or established programmer, and you want to make the most of Python? Are you searching for simple, engaging, and comprehensive beginner's introductions to Python programming, neural networks, and more? Then keep reading! Combining an incredible nearly 700 pages of cutting-edge information, this brilliant collection offers you the ultimate introduction to the world of Python. Breaking down the basics of coding, machine learning, data analysis, data science and so much more, this complete bundle will open your mind to the possibilities of Python and show you how to master this amazing skill. With step-by-step instructions and down-to-earth advice that even a complete beginner can follow, this bundle is perfect for programming students, hobbyists, professional programmers who want to branch out and learn new things, and anyone who wants to unearth the countless benefits of Python. Here's what you'll discover inside this collection:

- In Learning Python, you'll find an ultimate introduction to the world of Python, along with how you can begin programming and master the fundamentals.
- In Python Machine Learning, you'll be taken on an exploration of machine learning systems, neural networks, and complex ai training with Python.
- In Machine Learning With Python, you'll break down the details of Python's machine learning capabilities with practical advice and detailed overviews.
- In Python For Data Analysis, you'll learn about the unique and highly-effective tools Python has for analyzing data, sorting information, and drawing conclusions.
- In Python Data Science, you'll be taken one step further and uncover the complex world of data science, along with how Python can revolutionize this area and deliver powerful results.
- And in the Python Data Science Handbook, you'll find a beginner's introduction to data science with Python, including how you can harness this skill for advanced programming.

So if you're looking

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for an all-in-one introduction to the endless possibilities of Python, then this bundle is for you! Ready to begin mastering Python? Scroll up and grab your copy today!

Python Coding (Advanced Level) For Kids Every child should have the opportunity to learn how to code. This book is designed to help kids start programming with Python, exciting and informative lessons for intermediate to advanced levels. In this book, your kids will learn the fundamentals of the Python programming language, along with programming best practices. They will learn to represent and store data using Python data types and variables and use conditionals and loops to control the flow of your programs. They will harness the power of complex data structures like lists, sets, dictionaries, and tuples to store collections of related data. And they will define and document custom functions, write scripts, and handle errors. Lastly, they will learn to find and use modules in the Python Standard Library and other third-party libraries. This book is the Advanced Level of the Python teaching series. You can buy the rest of the parts in Author Name (Tommy Harry Johnson).

With an emphasis on clarity, style, and performance, author J.T. Wolohan expertly guides you through implementing a functionally-influenced approach to Python coding. You'll get familiar with Python's functional built-ins like the `functools` operator and `itertools` modules, as well as the `toolz` library. *Mastering Large Datasets* teaches you to write easily readable, easily scalable Python code that can efficiently process large volumes of structured and unstructured data. By the end of this comprehensive guide, you'll have a solid grasp on the tools and methods that will take your code beyond the laptop and your data science career to the next level! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Unleash your programming abilities and master the world of python with this ultimate 3-in-1 bundle! Do you want to uncover python programming, data science, and machine learning? Looking for the best, most up-to-date books that even a complete beginner can use? Then this bundle is for you!? Written with the beginner in mind, this comprehensive and insightful bundle explores how you can get started with the world of python programming. Python is the favorite and go-to language for countless programmers around the world - now, you can master this language and discover the world of data science, machine learning, and much more. From the complete basics of python to advanced concepts, neural networks, and the best ways to write code, this bundle is perfect for anyone who wants to break into programming and familiarize themselves with these essential tools. In book one, you'll explore python programming like never before, including: - Everything You Need To Know About The Fundamentals of Python Programming - Understanding (and Mastering) The Basics - An Exploration of Lists, Tuples, Dictionaries, Conditional and Decisional Statements - The Best Ways to Avoid Errors and Build Your Code - And Tons of Tips and Tricks For Using Loops, Inputs, Functions, Classes and More! In book two, you'll learn how to build machine learning models, including: - Why Machine Learning Is So Important - The Secret To How Machine Learning Works - Must-Know Concepts and Elements - Highly Effective Ways To Build Neural Networks and Training Models - Using Classifiers, Mathematical Notation, and More - And the Top Ways To Create The Perfect Training Sets And in book three, you'll find out how python is revolutionizing data science, including: - How Python Is Revolutionizing The Field of Data Science - The Best Ways To Collect, Clean, Manipulate, and Prepare Your Data -

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How To Turn Your Data Into Something You Can Read and Analyze - Understanding The Secret of Time Series, Data Aggregation, and Machine Learning - The Perfect Libraries To Use For Python and Data Science - And So Much More! So if you want to dive into the world of python and become a programming pro, then this bundle is for you. Uncover the fundamentals, explore the world of python, and learn how to master data science, machine learning, and more! Scroll up and buy now to get started with python today!

Become an efficient data science practitioner by understanding Python's key concepts About This Book Quickly get familiar with data science using Python 3.5 Save time (and effort) with all the essential tools explained Create effective data science projects and avoid common pitfalls with the help of examples and hints dictated by experience Who This Book Is For If you are an aspiring data scientist and you have at least a working knowledge of data analysis and Python, this book will get you started in data science. Data analysts with experience of R or MATLAB will also find the book to be a comprehensive reference to enhance their data manipulation and machine learning skills. What You Will Learn Set up your data science toolbox using a Python scientific environment on Windows, Mac, and Linux Get data ready for your data science project Manipulate, fix, and explore data in order to solve data science problems Set up an experimental pipeline to test your data science hypotheses Choose the most effective and scalable learning algorithm for your data science tasks Optimize your machine learning models to get the best performance Explore and cluster graphs, taking advantage of interconnections and links in your data In Detail Fully expanded and upgraded, the second edition of Python Data Science Essentials takes you through all you need to know to succeed in data science using Python. Get modern insight into the core of Python data, including the latest versions of Jupyter notebooks, NumPy, pandas and scikit-learn. Look beyond the fundamentals with beautiful data visualizations with Seaborn and ggplot, web development with Bottle, and even the new frontiers of deep learning with Theano and TensorFlow. Dive into building your essential Python 3.5 data science toolbox, using a single-source approach that will allow to to work with Python 2.7 as well. Get to grips fast with data munging and preprocessing, and all the techniques you need to load, analyse, and process your data. Finally, get a complete overview of principal machine learning algorithms, graph analysis techniques, and all the visualization and deployment instruments that make it easier to present your results to an audience of both data science experts and business users. Style and approach The book is structured as a data science project. You will always benefit from clear code and simplified examples to help you understand the underlying mechanics and real-world datasets.

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