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*Python For Data Science
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Hands-on Data Science for
Biologists using Python has

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been conceptualized to address the massive data handling needs of modern-day biologists. With the advent of high throughput technologies and consequent availability of omics data, biological science has

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become a data-intensive field. This hands-on textbook has been written with the inception of easing data analysis by providing an interactive, problem-based instructional approach in Python programming

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language. The book starts with an introduction to Python and steadily delves into scrupulous techniques of data handling, preprocessing, and visualization. The book concludes with machine

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learning algorithms and
their applications in
biological data science.

Each topic has an intuitive
explanation of concepts and
is accompanied with
biological examples.

Features of this book: The

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book contains standard templates for data analysis using Python, suitable for beginners as well as advanced learners. This book shows working implementations of data handling and machine

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learning algorithms using real-life biological datasets and problems, such as gene expression analysis; disease prediction; image recognition; SNP association with phenotypes and diseases. Considering the

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importance of visualization for data interpretation, especially in biological systems, there is a dedicated chapter for the ease of data visualization and plotting. Every chapter is designed to be

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interactive and is accompanied with Jupyter notebook to prompt readers to practice in their local systems. Other avant-garde component of the book is the inclusion of a machine learning project, wherein

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various machine learning algorithms are applied for the identification of genes associated with age-related disorders. A systematic understanding of data analysis steps has always been an important element

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for biological research.

This book is a readily accessible resource that can be used as a handbook for data analysis, as well as a platter of standard code templates for building models.

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Python Data Science
Essentials, Third Edition
provides modern insight in
setting up and performing
data science operations
effectively using the latest
python tools and libraries.
It builds faster governance

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on the most essential tasks
such as data munging and pre-
processing, along with all
the techniques you require.
Python Data Science
Handbook Essential Tools for
Working with Data "O'Reilly
Media, Inc."

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Python for Data Science is a comprehensive guide about how to perform data science with Python. This book is for students, researchers, and developers who are technically-minded, and have a wide background in writing

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code as well as using numerical and computational tools. However, many of you may don't wish to learn Python, but instead wish to learn the language in hopes of utilizing it as a means for computational and data-

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intensive science. The aim of this book is not meant to serve as a kind of introduction to Python or even programming in general; we presume readers will get their hands on this book already possess ample amount

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of knowledge in the Python language, which includes assigning variables, defining functions, controlling a program's flow, calling methods of objects, and other basic operations. Rather, the book

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was put together to assist users of Python to understand how to use the data science stack of Python - with libraries including NumPy, pandas, Matplotlib and other such tools - with the aim of effectively

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manipulating, storing, and getting data insight. In this book, we'll cover a variety of topics, including several libraries, such as NumPy that offers the ndarray for efficient manipulation and storage of dense data arrays

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in Python. Then you'll be able to learn how to manipulate data using Pandas, a library that offers the DataFrame object for efficient manipulation and storage of columnar/label data in

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Python. After that, we'll talk about the Matplotlib library and how it provides a range of flexible data visualization capabilities in Python. Then we'll talk the types of machine learning involved including

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supervised and unsupervised learning. Lastly, we'll finish with multiple regression analysis, which is a combination of techniques that help us study the straight-line relations between two or

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more variables. In addition, this book is backed by a series of examples and case studies to help clarify anything that is a little too hard for you to absorb. We are confident that you will make fine a data

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scientists going forward!

Advanced Data Science and
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Mastering Data-Driven
Finance

Python Crash Course for Data
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Coding, NumPy, Pandas and
Data Visualization

Data Wrangling with Pandas,
NumPy, and IPython

Data Science for Beginners

Data Science and Analytics
with Python

Explore the world of data

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*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

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*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*

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*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*

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***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***

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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

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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

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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

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solving. This comprehensive guide helps you move beyond the hype and transcend the theory by providing you with a hands-on, advanced study of data science. Beginning with the essentials of Python in data science, you

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will learn to manage data and perform linear algebra in Python. You will move on to deriving inferences from the analysis by performing inferential statistics, and mining data to reveal hidden patterns and trends. You

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will use the matplotlib library to create high-end visualizations in Python and uncover the fundamentals of machine learning. Next, you will apply the linear regression technique and also learn to apply the

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***logistic regression
technique to your
applications, before
creating recommendation
engines with various
collaborative filtering
algorithms and improving
your predictions by applying***

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***the ensemble
methods. Finally, you will
perform K-means clustering,
along with an analysis of
unstructured data with
different text mining
techniques and leveraging
the power of Python in big***

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data analytics. Style and approach This book is an easy-to-follow, comprehensive guide on data science using Python. The topics covered in the book can all be used in real world scenarios. This textbook grew out of

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***notes for the ECE143
Programming for Data
Analysis class that the
author has been teaching at
University of California,
San Diego, which is a
requirement for both
graduate and undergraduate***

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***degrees in Machine Learning
and Data Science. This book
is ideal for readers with
some Python programming
experience. The book covers
key language concepts that
must be understood to
program effectively,***

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especially for data analysis applications. Certain low-level language features are discussed in detail, especially Python memory management and data structures. Using Python effectively means taking

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advantage of its vast ecosystem. The book discusses Python package management and how to use third-party modules as well as how to structure your own Python modules. The section on object-oriented

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*programming explains
features of the language
that facilitate common
programming patterns. After
developing the key Python
language features, the book
moves on to third-party
modules that are*

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foundational for effective data analysis, starting with Numpy. The book develops key Numpy concepts and discusses internal Numpy array data structures and memory usage. Then, the author moves onto Pandas and details its many

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features for data processing and alignment. Because strong visualizations are important for communicating data analysis, key modules such as Matplotlib are developed in detail, along with web-based options such

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*as Bokeh, HoloViews, Altair,
and Plotly. The text is
sprinkled with many tricks-
of-the-trade that help avoid
common pitfalls. The author
explains the internal logic
embodied in the Python
language so that readers can*

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get into the Python mindset and make better design choices in their codes, which is especially helpful for newcomers to both Python and data analysis. To get the most out of this book, open a Python interpreter

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*and type along with the many
code samples.*

*Build real-world Artificial
Intelligence applications
with Python to intelligently
interact with the world
around you About This Book
Step into the amazing world*

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insightful examples that*

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in no time Who This Book Is
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developers who want to build
real-world Artificial
Intelligence applications.
This book is friendly to*

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Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in

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*their existing technology
stacks. What You Will Learn
Realize different
classification and
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clustering and how to use it
to automatically segment*

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and time series data See how*

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*to use deep learning
algorithms and build
applications based on it In
Detail Artificial
Intelligence is becoming
increasingly relevant in the
modern world where
everything is driven by*

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technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about

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various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting

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*from the basics of
Artificial Intelligence, you
will learn how to develop
various building blocks
using different data mining
techniques. You will see how
to implement different
algorithms to get the best*

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possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data,

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*this exciting book on
Artificial Intelligence will
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Style and approach This
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examples enabling you to create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application.

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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. In this book,

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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

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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

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thought to ask. This book provides you with the know-how to dig those answers out. Get a crash course in Python Learn the basics of linear algebra, statistics, and probability—and understand how and when

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*they're used in data science
Collect, explore, clean,
munge, and manipulate data
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of machine learning
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Python Data Science

Essentials

The Best of Both Worlds

Python programming
language is an open
source programming
language which can be

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used under different
operating system. Python
programming redefined
the programming concepts
with its important
features like
flexibility,

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adaptability and
reusability of codes.
Python programming
language has numerous
libraries or modules
which helps the
programmer to save their

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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

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handling external
datasets and database
connections. The book
also covers the topics
in data science such as
graphical and chart
visualization,

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statistical modeling,
text mining and machine
learning algorithms. The
book uses popular
libraries of Python like
matplotlib, scikit-learn
and numpy, to perform

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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

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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

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This accessible and
classroom-tested
textbook/reference
presents an introduction
to the fundamentals of
the emerging and
interdisciplinary field

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of data science. The coverage spans key concepts adopted from statistics and machine learning, useful techniques for graph analysis and parallel

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programming, and the practical application of data science for such tasks as building recommender systems or performing sentiment analysis. Topics and

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features: provides
numerous practical case
studies using real-world
data throughout the
book; supports
understanding through
hands-on experience of

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solving data science
problems using Python;
describes techniques and
tools for statistical
analysis, machine
learning, graph
analysis, and parallel

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programming; reviews a range of applications of data science, including recommender systems and sentiment analysis of text data; provides supplementary code

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resources and data at an
associated website.

Advanced Data Science
and Analytics with
Python enables data
scientists to continue
developing their skills

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and apply them in
business as well as
academic settings. The
subjects discussed in
this book are
complementary and a
follow-up to the topics

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discussed in Data
Science and Analytics
with Python. The aim is
to cover important
advanced areas in data
science using tools
developed in Python such

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as SciKit-learn, Pandas,
Numpy, Beautiful Soup,
NLTK, NetworkX and
others. The model
development is supported
by the use of frameworks
such as Keras,

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TensorFlow and Core ML,
as well as Swift for the
development of iOS and
MacOS applications.

Features: Targets
readers with a
background in

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programming, who are
interested in the tools
used in data analytics
and data science Uses
Python throughout
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alongside solved

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reader. Each of the
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book tackles the data
science workflow from a
practical perspective,
concentrating on the
process and results

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obtained. The implementation and deployment of trained models are central to the book. Time series analysis, natural language processing,

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topic modelling, social network analysis, neural networks and deep learning are comprehensively covered. The book discusses the need to develop data

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products and addresses the subject of bringing models to their intended audiences – in this case, literally to the users' fingertips in the form of an iPhone app.

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About the Author Dr.
Jesús Rogel-Salazar is a
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the field, working for
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Health Technologies,
Barclays, AKQA, IBM Data

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Science Studio and Dow
Jones. He is a visiting
researcher at the
Department of Physics at
Imperial College London,
UK and a member of the
School of Physics,

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Astronomy and
Mathematics at the
University of
Hertfordshire, UK.
For many researchers,
Python is a first-class
tool mainly because of

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its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only

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with the Python Data
Science Handbook do you
get them all--IPython,
NumPy, Pandas,
Matplotlib, Scikit-
Learn, and other related
tools. Working

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scientists and data
crunchers familiar with
reading and writing
Python code will find
this comprehensive desk
reference ideal for
tackling day-to-day

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issues: manipulating,
transforming, and
cleaning data;
visualizing different
types of data; and using
data to build
statistical or machine

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learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and

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Jupyter: provide
computational
environments for data
scientists using Python
NumPy: includes the
ndarray for efficient
storage and manipulation

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of dense data arrays in
Python Pandas: features
the DataFrame for
efficient storage and
manipulation of
labeled/columnar data in
Python Matplotlib:

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includes capabilities
for a flexible range of
data visualizations in
Python Scikit-Learn: for
efficient and clean
Python implementations
of the most important

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and established machine
learning algorithms
Building Scalable Model
Pipelines with Python
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this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney,

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the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It ' s ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related

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material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean,

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Create informative visualizations with
matplotlib Apply the pandas groupby
facility to slice, dice, and summarize
datasets Analyze and manipulate
regular and irregular time series data
Learn how to solve real-world data

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analysis problems with thorough,
detailed examples

Data Science and Analytics with
Python is designed for practitioners in
data science and data analytics in both
academic and business environments.
The aim is to present the reader with

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the main concepts used in data science using tools developed in Python, such as SciKit-learn, Pandas, Numpy, and others. The use of Python is of particular interest, given its recent popularity in the data science community. The book can be used by

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seasoned programmers and newcomers alike. The book is organized in a way that individual chapters are sufficiently independent from each other so that the reader is comfortable using the contents as a reference. The book discusses what data science and

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analytics are, from the point of view of the process and results obtained.

Important features of Python are also covered, including a Python primer.

The basic elements of machine learning, pattern recognition, and artificial intelligence that underpin the

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algorithms and implementations used in the rest of the book also appear in the first part of the book. Regression analysis using Python, clustering techniques, and classification algorithms are covered in the second part of the book. Hierarchical

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clustering, decision trees, and ensemble techniques are also explored, along with dimensionality reduction techniques and recommendation systems. The support vector machine algorithm and the Kernel trick are discussed in the last part of the book.

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About the Author Dr. Jesús Rogel-Salazar is a Lead Data scientist with experience in the field working for companies such as AKQA, IBM Data Science Studio, Dow Jones and others. He is a visiting researcher at the Department of Physics at Imperial

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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

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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

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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

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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

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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

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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

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real-world datasets.

The fast and easy way to learn Python programming and statistics Python is a general-purpose programming language created in the late 1980s—and named after Monty Python—that's used by thousands

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of people to do things from testing microchips at Intel, to powering Instagram, to building video games with the PyGame library. Python For Data Science For Dummies is written for people who are new to data analysis, and discusses the basics

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of Python data analysis programming and statistics. The book also discusses Google Colab, which makes it possible to write Python code in the cloud. Get started with data science and Python Visualize information Wrangle data Learn from data

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The book provides the statistical background needed to get started in data science programming, including probability, random distributions, hypothesis testing, confidence intervals, and building regression models for prediction.

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Python and R for the Modern
Data Scientist

Data Science in Production

A Python Approach to Concepts,
Techniques and Applications

Hands-On Data Analysis with
Pandas

Python Data Science

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The Ultimate and Complete
Guide for Beginners to Master
Data Science with Python Step
By Step

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for

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individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for

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tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational

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*environments for data scientists using
Python NumPy: includes the ndarray for
efficient storage and manipulation of dense
data arrays in Python Pandas: features the
DataFrame for efficient storage and
manipulation of labeled/columnar data in
Python Matplotlib: includes capabilities for
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*Python Scikit-Learn: for efficient and clean
Python implementations of the most
important and established machine learning
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modules, and toolkits are great for doing
data science, but they're also a good way to
dive into the discipline without actually*

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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

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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. Success in data science depends on the flexible and appropriate use of tools. That

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includes Python and R, two of the foundational programming languages in the field. With this book, data scientists from the Python and R communities will learn how to speak the dialects of each language. By recognizing the strengths of working with both, you'll discover new ways to accomplish data science tasks and expand

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your skill set. Authors Boyan Angelov and Rick Scavetta explain the parallel structures of these languages and highlight where each one excels, whether it's their linguistic features or the powers of their open source ecosystems. Not only will you learn how to use Python and R together in real-world settings, but you'll also broaden your

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knowledge and job opportunities by working as a bilingual data scientist. Learn Python and R from the perspective of your current language Understand the strengths and weaknesses of each language Identify use cases where one language is better suited than the other Understand the modern open source ecosystem available for both,

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including packages, frameworks, and workflows Learn how to integrate R and Python in a single workflow Follow a real-world case study that demonstrates ways to use these languages together

Explore the world of data science through Python and learn how to make sense of data About This Book Master data science

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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

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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

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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

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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

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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. This comprehensive guide helps you move beyond the hype and transcend the theory by providing you with a hands-on,

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advanced study of data science. Beginning with the essentials of Python in data science, you will learn to manage data and perform linear algebra in Python. You will move on to deriving inferences from the analysis by performing inferential statistics, and mining data to reveal hidden patterns and trends. You will use the matplotlib library to create

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high-end visualizations in Python and uncover the fundamentals of machine learning. Next, you will apply the linear regression technique and also learn to apply the logistic regression technique to your applications, before creating recommendation engines with various collaborative filtering algorithms and

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improving your predictions by applying the ensemble methods. Finally, you will perform K-means clustering, along with an analysis of unstructured data with different text mining techniques and leveraging the power of Python in big data analytics. Style and approach This book is an easy-to-follow, comprehensive guide on data science

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*using Python. The topics covered in the book
can all be used in real world scenarios.*

A Tour of Data Science

Python for Data Analysis

**If you want to learn more
about Data Science or**

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**how to master it with the
Python Programming
Language, then keep
reading. Data Science is
one of the biggest
buzzwords in the
business world**

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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

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next step?" Data Science includes all the different steps that you take with the data: collecting and cleaning them if they come from more than one source, analyzing them,

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**applying Machine
Learning algorithms and
models, and then
presenting your findings
from the analysis with
some good Data
Visualizations. And this is**

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**what you will learn in
Python Data Science. You
will learn about the main
steps that are needed to
correctly implement Data
Science techniques and
the algorithms to help**

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**you sort through the data
and see some amazing
results. Some of the
topics that we will
discuss inside include:
What data science is all
about and why so many**

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**companies are using it to
give them a competitive
edge. Why Python and
how to use it to
implement Data Science
What is the intersection
between Machine**

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**Learning and Data
Science and how to
combine them The main
Data Structures & Object-
Oriented Python, with
practical codes and
exercises to use Python**

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**Functions and Modules in
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important algorithms and
models in Data Science
Data Aggregation and
Group Operations 9
important Data Mining**

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Science Interaction with
databases and data in the
cloud And Much More!
Where most books only
focus on how collecting
and cleaning the data,**

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**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**

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**miss the opportunity to
learn more about these
topics. Even if you have
never implemented Data
Science techniques,
learning them is easier
than it looks. You just**

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And Python Data Science
provides all the
knowledge you need in a
simple and practical way.
Regardless of your
previous experience, you**

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**will learn, the techniques
to manipulate and
process datasets, the
principles of Python
programming, and its
most important real-
world applications. Would**

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Putting predictive models
into production is one of
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**process and more rapidly
deliver data products.**

**This book provides a
hands-on approach to
scaling up Python code to
work in distributed
environments in order to**

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**build robust pipelines.
Readers will learn how to
set up machine learning
models as web endpoints,
serverless functions, and
streaming pipelines using
multiple cloud**

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**environments. It is
intended for analytics
practitioners with hands-
on experience with
Python libraries such as
Pandas and scikit-learn,
and will focus on scaling**

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production. From
startups to trillion dollar
companies, data science
is playing an important
role in helping
organizations maximize**

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**the value of their data.
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their careers by taking
ownership of data
products with applied
examples that**

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**demonstrate how to:
Translate models
developed on a laptop to
scalable deployments in
the cloud Develop end-to-
end systems that
automate data science**

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product from conception
to production The
accompanying Jupyter
notebooks provide
examples of scalable
pipelines across multiple**

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**cloud environments,
tools, and libraries (github.com/bgweber/DS_Production).
Book Contents
Here are the topics
covered by Data Science
in Production: Chapter 1:**

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Introduction - This chapter will motivate the use of Python and discuss the discipline of applied data science, present the data sets, models, and cloud environments used

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**throughout the book, and
provide an overview of
automated feature
engineering. Chapter 2:
Models as Web Endpoints
- This chapter shows how
to use web endpoints for**

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**consuming data and
hosting machine learning
models as endpoints
using the Flask and
Gunicorn libraries. We'll
start with scikit-learn
models and also set up a**

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**deep learning endpoint
with Keras. Chapter 3:
Models as Serverless
Functions - This chapter
will build upon the
previous chapter and
show how to set up**

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**model endpoints as
serverless functions
using AWS Lambda and
GCP Cloud Functions.
Chapter 4: Containers for
Reproducible Models -
This chapter will show**

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**how to use containers for
deploying models with
Docker. We'll also explore
scaling up with ECS and
Kubernetes, and building
web applications with
Plotly Dash. Chapter 5:**

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Workflow Tools for Model Pipelines - This chapter focuses on scheduling automated workflows using Apache Airflow. We'll set up a model that pulls data from BigQuery,

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**applies a model, and
saves the results.**

**Chapter 6: PySpark for
Batch Modeling - This
chapter will introduce
readers to PySpark using
the community edition of**

Databricks. We'll build a batch model pipeline that pulls data from a data lake, generates features, applies a model, and stores the results to a NoSQL database. Chapter 7:

Cloud Dataflow for Batch Modeling - This chapter will introduce the core components of Cloud Dataflow and implement a batch model pipeline for reading data from

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**BigQuery, applying an ML
model, and saving the
results to Cloud
Datastore. Chapter 8:
Streaming Model
Workflows - This chapter
will introduce readers to**

Kafka and PubSub for streaming messages in a cloud environment. After working through this material, readers will learn how to use these message brokers to

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**create streaming model
pipelines with PySpark
and Dataflow that
provide near real-time
predictions. Excerpts of
these chapters are
available on Medium**

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sample is available on
Leanpub.**

**This book covers the
fundamentals of machine
learning with Python in a
concise and dynamic**

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**manner. It covers data
mining and large-scale
machine learning using
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Book* Take your first
steps in the world of data
science by understanding**

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**the tools and techniques
of data analysis* Train
efficient Machine
Learning models in
Python using the
supervised and
unsupervised learning**

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clean your data and
ready it for analysis*
Implement the popular
clustering and regression
methods in Python* Train**

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decision trees and
random forests* Visualize
the results of your
analysis using Python's
Matplotlib library* Use**

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**Apache Spark's MLlib
package to perform
machine learning on large
datasets**
In Detail
Join
Frank Kane, who worked
on Amazon and IMDb's
machine learning

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**algorithms, as he guides
you on your first steps
into the world of data
science. Hands-On Data
Science and Python
Machine Learning gives
you the tools that you**

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need to understand and explore the core topics in the field, and the confidence and practice to build and analyze your own machine learning models. With the help of

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interesting and easy-to-follow practical examples, Frank Kane explains potentially complex topics such as Bayesian methods and K-means clustering in a way that

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**anybody can understand
them. Based on Frank's
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statistics in Excel to
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**analytics with the Python
programming language
Key Features: Use data
analytics and machine
learning in a sales and
marketing context Gain
insights from data to**

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decisions Build your
experience and
confidence with realistic
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power of data to reach**

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with this practical guide
to data science for
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You'll work with relevant
datasets and build your
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real-world market**

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problem-solving skills,
and discover how to look
at data in new ways to
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learning techniques to
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improve your decision-
making. What You Will**

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explore sales and
marketing data using
pandas Form and test
hypotheses using real
data sets and analytics
tools Visualize patterns in**

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and SMOTE Who this
book is for: This
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Whether you're a
developer who wants to
move into marketing, or a
marketing analyst who
wants to learn more
sophisticated tools and**

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