Advanced Data Analytics Using Python With Machine Learning Deep Learning And

Nlp Examples

Understand advanced data analytics concepts such as time series and principal component analysis with ETL, supervised learning, and PySpark using Python. This book covers architectural

patterns in data analytics, text and image classification, optimization techniques, natural language processing, and computer vision in the cloud environment.

Generic design patterns in Python programming is

clearly explained, emphasizing architectural practices such as hot potato to anti-patterns. You'll review recent advances in databases such as Neo4j, Elasticsearch, and MongoDB. You'll then study feature

engineering in images and texts with implementing business logic and see how to build machine learning and deep learning models using transfer learning. Advanced Analytics with Python, 2nd edition features a chapter on

clustering with a neural network, regularization techniques, and algorithmic design patterns in data analytics with reinforcement learning. Finally, the recommender system in PySpark explains how to optimize models for

a specific application. What You'll Learn Build intelligent systems for enterprise Review time series analysis, classifications, regression, and clustering Explore supervised learning, unsupervised learning,

reinforcement learning, and transfer learning Use cloud platforms like GCP and AWS in data analytics Understand Covers design patterns in Python Who This Book Is For Data scientists and software developers interested in the

field of data analytics. 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 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

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and writing Python
code will find this
comprehensive
desk reference ideal
for 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 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 a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms Learn data analysis

using Python with this easy to follow beginners guide. It covers all aspects of processing, manipulation, crunching, and cleaning data using Python programming language. It has been designed to prepare you for:

analyzing data
creating relevant
data visualizations
carrying out
statistical analyses
for large data
estimating the
upcoming future
trends by using
current data and lots
more! This book will
help you learn the
various parts of

Python
programming
language, its
libraries, and
scientific
computation using
Python. Learn to
practically solve
extensive sets of
problems related to
data analysis.
Python is on par
with other

programming
languages like
MATLAB, Stata, R,
SAS, and others
when it comes to
data analysis and
data visualization.
Python's rich set of
libraries (mainly
Pandas) has grown
rapidly in recent
years and is
considered one of

the best among its competitors for tasks related to data manipulation. When combined with Python's own internal solidity, as a general purpose programming language, we can say that it is an excellent choice to build data centric

web applications. You will learn how to use the essential Python libraries required for data analysis like NumPy, Pandas, matplotlib, IPython, and SciPy. Each one of them performs a particular functionality for data

analysis and you will be surprised at how easy it is. So what are you waiting for? Now is your chance to learn hands on Python with ease. Click the BUY NOW button to get started on your Python journey.
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,

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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 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 frameworksAssess model diagnosis and tuning in machine learningExamine text mining, natuarl language

processing (NLP), and recommender systemsReview reinforcement learning and CNN Who This Book Is For Python developers, data engineers, and machine learning engineers looking to expand their knowledge or career

Analytics Using
into machine
Python
learning area.
Mastering Predictive
Analytics with scikit-
learn and Examples
TensorFlow
Business Analytics
Gain practical
insights by
exploiting data in
your business to
build advanced
predictive modeling

applications
Patterns for
Learning from Data
at Scale
Python
Programming
An Introduction for
Data Scientists
Analyze Data to
Create
Visualizations for BI
Systems
Solve Data

Analytics Problems with Spark, PySpark, and Related Open Source Tools Spark is at the heart of today's Big Data revolution, helping data professionals supercharge efficiency and performance in a wide range of data

*processing and
analytics tasks. In
this guide, Big Data
expert Jeffrey Aven
covers all you need
to know to leverage
Spark, together with
its extensions,
subprojects, and
wider ecosystem.
Aven combines a
language-agnostic
introduction to*

foundational Spark concepts with extensive programming examples utilizing the popular and intuitive PySpark development environment. This guide's focus on Python makes it widely accessible to large audiences of

data professionals, analysts, and developers—even those with little Hadoop or Spark experience. Aven's broad coverage ranges from basic to advanced Spark programming, and Spark SQL to machine learning. You'll learn how to

*efficiently manage
all forms of data
with Spark:
streaming,
structured, semi-
structured, and
unstructured.
Throughout, concise
topic overviews
quickly get you up to
speed, and
extensive hands-on
exercises prepare*

*you to solve real problems. Coverage includes: •
Understand Spark's evolving role in the Big Data and Hadoop ecosystems • Create Spark clusters using various deployment modes • Control and optimize the operation of Spark*

clusters and applications • Master Spark Core RDD API programming techniques • Extend, accelerate, and optimize Spark routines with advanced API platform constructs, including shared variables, RDD

storage, and partitioning • Efficiently integrate Spark with both SQL and nonrelational data stores • Perform stream processing and messaging with Spark Streaming and Apache Kafka • Implement predictive modeling

with SparkR and Spark MLlib This book provides an introduction to quantitative marketing with Python. The book presents a hands-on approach to using Python for real marketing questions, organized by key

topic areas. Following the Python scientific computing movement toward reproducible research, the book presents all analyses in Colab notebooks, which integrate code, figures, tables, and annotation in a

*single file. The code
notebooks for each
chapter may be
copied, adapted,
and reused in one's
own analyses. The
book also
introduces the
usage of machine
learning predictive
models using the
Python sklearn
package in the*

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context of marketing research. This book is designed for three groups of readers: experienced marketing researchers who wish to learn to program in Python, coming from tools and languages such as R, SAS, or SPSS; analysts or

students who already program in Python and wish to learn about marketing applications; and undergraduate or graduate marketing students with little or no programming background. It presumes only an introductory level of

familiarity with formal statistics and contains a minimum of mathematics. Get to grips with processing large volumes of data and presenting it as engaging, interactive insights using Spark and Python. Key Features Get a

hands-on, fast-paced introduction to the Python data science stack *Explore ways to create useful metrics and statistics from large datasets Create detailed analysis reports with real-world data Book Description*

Processing big data in real time is challenging due to scalability, information inconsistency, and fault tolerance. Big Data Analysis with Python teaches you how to use tools that can control this data avalanche for you. With this book,

you'll learn practical techniques to aggregate data into useful dimensions for posterior analysis, extract statistical measurements, and transform datasets into features for other systems. The book begins with an introduction to data

manipulation in
Python using
pandas. You'll then
get familiar with
statistical analysis
and plotting
techniques. With
multiple hands-on
activities in store,
you'll be able to
analyze data that is
distributed on
several computers

by using Dask. As you progress, you'll study how to aggregate data for plots when the entire data cannot be accommodated in memory. You'll also explore Hadoop (HDFS and YARN), which will help you tackle larger datasets. The

book also covers
Spark and explains
how it interacts with
other tools. By the
end of this book, *you'll be able to*
bootstrap your own
Python
environment,
process large files,
and manipulate data
to generate
statistics, metrics,

and graphs. What you will learn Use Python to read and transform data into different formats Generate basic statistics and metrics using data on disk Work with computing tasks distributed over a cluster Convert data from various

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sources into storage or querying formats Prepare data for statistical analysis, visualization, and machine learning Present data in the form of effective visuals Who this book is for Big Data Analysis with Python is designed for Python

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*developers, data
analysts, and data
scientists who want
to get hands-on with
methods to control
data and transform
it into impactful
insights. Basic
knowledge of
statistical
measurements and
relational databases
will help you to*

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understand various concepts explained in this book. Data analytics may seem daunting, but if you're familiar with Excel, you have a head start that can help you make the leap into analytics. Advancing into Analytics will lower your learning curve.

Author George Mount, founder and CEO of Stringfest Analytics, clearly and gently guides intermediate Excel users to a solid understanding of analytics and the data stack. This book demonstrates key statistical concepts from

spreadsheets and pivots your existing knowledge about data manipulation into R and Python programming. With this practical book at your side, you'll learn how to: Explore a dataset for potential research questions to check

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*assumptions and to
build hypotheses
Make compelling
business
recommendations
using inferential
statistics Load,
view, and write
datasets using R
and Python Perform
common data
wrangling tasks
such as sorting,*

filtering, and aggregating using R and Python Navigate and execute code in Jupyter notebooks Identify, install, and implement the most useful open source packages for your needs And more Data Wrangling with Pandas, NumPy,

*and IPython
Big Data Analysis
with Python
Advanced and
Effective Strategies
of Using Python
Data Analytics
Advanced Data
Science and
Analytics with
Python
Master the complete
predictive analytics*

*process, from
problem definition to
model deployment
Data Analysis with
Python*

R for Everyone

Understand
data analysis
pipelines
using machine
learning
algorithms and

techniques
with this
practical
guideKey
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 analysisBook D escriptionData 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

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analysis by exploring the different phases and methodologies used in data analysis and learning how to use modern libraries from the Python ecosystem to

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create
efficient data
pipelines.Star
ting 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, cl
assification,
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

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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

Analytics Using values from Python With data.What you Machine Learning will learn* Deep Learning Explore data And Nlp Examples 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,

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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 DaskWho this book is forThis book is for data analysts, business analysts, statisticians, and data

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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
programming
language will

help you get started with this book. Embrace machine learning approaches and Python to enable automatic rendering of rich insights

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and solve
business
problems. The
book uses a
hands-on case
study-based
approach to
crack real-
world
applications
to which
machine

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learning
concepts can
be applied.
These smarter
machines will
enable your
business
processes to
achieve
efficiencies
on minimal
time and

resources.

Python Machine

Learning Case

Studies takes

you through

the steps to

improve

business

processes and

determine the

pivotal points

that frame

strategies. You'll see machine learning techniques that you can use to support your products and services. Moreover you'll learn the pros and

cons of each of the machine learning concepts to help you decide which one best suits your needs. By taking a step-by-step approach to coding in

Python you'll
be able to
understand the
rationale
behind model
selection and
decisions
within the
machine
learning
process. The
book is

Analytics Using equipped with practical examples along with code snippets to ensure that you understand the data science approach to solving real-world

problems. What You Will Learn Gain insights into machine learning concepts Work on real-world applications of machine learning Learn concepts of model

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selection and
optimization
Get a hands-on
overview of
Python from a
machine
learning point
of view Who
This Book Is
For Data
scientists,
data analysts,

artificial
intelligence
engineers, big
data
enthusiasts,
computer
scientists,
computer
sciences
students, and
capital market
analysts.

Step-by-step guide to build high performing predictive applications Key FeaturesUse the Python data analytics ecosystem to implement end-

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to-end
predictive
analytics proj
ectsExplore
advanced
predictive
modeling
algorithms
with an
emphasis on
theory with
intuitive expl

anationsLearn to deploy a predictive model's results as an interactive ap plicationBook Description Predictive analytics is an applied field that

employs a
variety of
quantitative
methods using
data to make
predictions.
It involves
much more than
just throwing
data onto a
computer to
build a model.

This book provides practical coverage to help you understand the most important concepts of predictive analytics. Using practical,

step-by-step
examples, we
build
predictive
analytics
solutions
while using
cutting-edge
Python tools
and packages.
The book's
step-by-step

approach
starts by
defining the
problem and
moves on to
identifying
relevant data.
We will also
be performing
data
preparation,
exploring and

Analytics Using
visualizing
relationships,
building
models,
tuning,
evaluating,
and deploying
model. Each
stage has
relevant
practical
examples and

efficient
Python code.
You will work
with models
such as KNN,
Random
Forests, and
neural
networks using
the most
important
libraries in

Python's data
science stack:
NumPy, Pandas,
Matplotlib,
Seaborn,
Keras, Dash,
and so on. In
addition to
hands-on code
examples, you
will find
intuitive

explanations
of the inner
workings of
the main
techniques and
algorithms
used in
predictive
analytics. By
the end of
this book, you
will be all

set to build h
igh-
performance
predictive
analytics
solutions
using Python
programming.
What you will
learnGet to
grips with the
main concepts

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and principles of predictive analyticsLearn about the stages involved in producing complete predictive analytics solutionsUnderstand how to

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define a
problem,
propose a
solution, and
prepare a
datasetUse
visualizations
to explore
relationships
and gain
insights into
the

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datasetLearn
to build
regression and
classification
models using s
cikit-learnUse
Keras to build
powerful
neural network
models that
produce
accurate predi

ctionsLearn to
serve a
model's
predictions as
a web

applicationWho
this book is
for This book
is for data
analysts, data
scientists,
data

engineers, and developers who want to learn about predictive modeling and would like to implement predictive analytics solutions

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using Python's data stack. People from other backgrounds who would like to enter this exciting field will greatly benefit from reading this book. All you

need is to be
proficient in
Python
programming
and have a
basic
understanding
of statistics
and college-
level algebra.
This easy-to-
follow guide

provides R and
Python recipes
to help you
learn and
apply the top
languages in
the field of
data analytics
to your work
in Microsoft
Power BI. Data
analytics

expert and
author Ryan
Wade shows you
how to use R
and Python to
perform tasks
that are
extremely hard
to do, if not
impossible,
using native
Power BI tools

without Power BI Premium capacity. For example, you will learn to score Power BI data using custom data science models, including powerful

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models from
Microsoft
Cognitive
Services. The
R and Python
languages are
powerful
complements to
Power BI. They
enable
advanced data
transformation

techniques
that are
difficult to
perform in
Power BI in
its default
configuration,
but become
easier through
the
application of
data wrangling

features that
languages such
as R and
Python
support. If
you are a BI
developer,
business
analyst, data
analyst, or a
data scientist
who wants to

push Power BI and transform it from being just a business

intelligence tool into an advanced data analytics tool, then this is the book to help

you to do that. What You Will Learn Create advanced data visualizations through R using the ggplot2 package Ingest data using R and Python to

overcome the limitations of Power Query Apply machine learning models to your data using R and Python Incorporate advanced AI in Power BI via Microsoft

Cognitive Services, IBM Watson, and pre-trained models in SQL Server Machine Learning Services Perform string manipulations not otherwise possible in

Power BI using
R and Python
Who This Book
Is For Power
users, data
analysts, and
data
scientists who
want to go
beyond Power
BI's built-in
functionality

to create advanced visualizations, transform data in ways not otherwise supported, and automate data ingestion from sources such as SQL Server and Excel in a

Analytics Using
more succinct

way

A Beginners

Guide for

Learning

Python Data

Analytics from

A-Z

Data Analysis

and

Visualization

Using Python

Data Analytics
with Spark
Using Python
Data Analysis
and Science
using pandas,
matplotlib and
the Python
Programming
Language
Essential
Tools for

Advanced Data Analytics Using Python With Machine Learning Deep Learning And Nlp Examples Working with Data

Python Programming for Data Analysis Perform exploratory data analysis and gain insight into scientific

computing using Python A practical guide to data-intensive humanities research using the Python programming language The use of quantitative methods in the humanities and related social sciences has

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increased considerably in recent years, allowing researchers to discover patterns in a vast range of source materials. Despite this growth, there are few resources addressed to students and scholars who wish to

Analytics Using
take advantage of
these powerful tools.
Humanities Data
Analysis offers the
first intermediate-
level guide to
quantitative data
analysis for
humanities students
and scholars using
the Python
programming

language. This practical textbook, which assumes a basic knowledge of Python, teaches readers the necessary skills for conducting humanities research in the rapidly developing digital environment. The book begins with an

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overview of the
place of data science
in the humanities,
and proceeds to
cover data carpentry:
the essential
techniques for
gathering, cleaning,
representing, and
transforming textual
and tabular data.
Then, drawing from

Page 130/434

real-world, publicly
available data sets
that cover a variety
of scholarly
domains, the book
delves into detailed
case studies.
Focusing on textual
data analysis, the
authors explore such
diverse topics as
network analysis,

genre theory, onomastics, literacy, author attribution, mapping, stylometry, topic modeling, and time series analysis. Exercises and resources for further reading are provided at the end of each chapter. An ideal resource for

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humanities students
and scholars aiming
to take their Python
skills to the next
level, Humanities
Data Analysis
illustrates the
benefits that
quantitative methods
can bring to complex
research questions.
Appropriate for

advanced
undergraduates,
graduate students,
and scholars with a
basic knowledge of
Python Applicable to
many humanities
disciplines, including
history, literature,
and sociology Offers
real-world case
studies using

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publicly available
data sets Provides
exercises at the end
of each chapter for
students to test
acquired skills
Emphasizes visual
storytelling via data
visualizations
Get complete
instructions for
manipulating,

processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of 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, 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
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, transform,
merge, and reshape
data Create
informative

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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 analysis problems with

thorough, detailed
examples
You Are 1-Click
Away From
Learning Why
Python Is The
Preferred
Programming
Language In
Computer Science,
Big Data, Machine
Learning, Artificial

Analytics Using Intelligence And Other Advanced Computing Stuff, Including How To Actually Use Python In These Fields Of Computing! Python is the primary programming language for advanced computing concepts ranging

from machine
learning, big data,
data analytics,
artificial intelligence
and many others.
And with these
concepts slowly
becoming
mainstream, it makes
sense that you have
an above average
understanding of

how to use python to take advantage of such concepts like automation, robotics, data analytics, data science, machine learning and others. So where do you start? What exactly do you need to learn? What's the place of python in

big data, artificial
intelligence, data
science, machine
learning, analytics
etc.? How do you
bring out your A
game as a python
professional in each
of these concepts? If
you have these and
other related
questions, this book

is specially written
for you, covering
everything from
basic to advanced
stuff that will give
you an above average
understanding of
using python for
advanced computing.
More precisely, the
book covers: Why
python is the most

preferred
programming
language for
advanced computing
stuff like data
analysis, big data,
deep learning,
machine learning,
artificial intelligence
and more How to
handle object-
oriented

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programming and why it is the best kind to handle data analysis. How to perform data analysis, step by step How all the advanced computing concepts like machine learning, deep learning, artificial intelligence

and others relate and
how python is at the
center of it all The
best python libraries
to use for advanced
computing, including
sample codes you
can write with these
libraries How to
handle different
machine learning
algorithms by

Analytics Using leveraging the power of python to analyze any data you want Powerful tips and tricks that you can use to handle any problems in code, as they come And much more Indeed; python is powerful, scalable, easy to use and much more,

Analytics Using
which are important
ingredients for
unleashing the full
capabilities of
advanced computing
concepts like
machine learning,
deep learning,
artificial intelligence,
data science, data
analytics and much
more. And with the

help of this hands
on, practical and
easy to follow guide
to using python for
advanced computing,
you can rest assured
that you will start
seeing the fruits of
your labor soon!
Whether you want to
learn python for
advanced computing

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to give your business
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python for advanced
computing to add a
new skill and
possibly climb up the
corporate ladder, this
book has easy to
follow steps to help
you throughout the
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Enhance your data
analysis and
predictive modeling
skills using popular
Python tools Key
Features Cover all
fundamental libraries
for operation and
manipulation of

Analytics Using
Python for data
analysis Implement
real-world datasets to
perform predictive
analytics with
Python Access
modern data analysis
techniques and
detailed code with
scikit-learn and
SciPy Book
Description Python

is one of the most
common and popular
languages preferred
by leading data
analysts and
statisticians for
working with
massive datasets and
complex data
visualizations.
Become a Python
Data Analyst

introduces Python's
most essential tools
and libraries
necessary to work
with the data analysis
process, right from
preparing data to
performing simple
statistical analyses
and creating
meaningful data
visualizations. In this

book, we will cover
Python libraries such
as NumPy, pandas,
matplotlib, seaborn,
SciPy, and scikit-
learn, and apply
them in practical
data analysis and
statistics examples.
As you make your
way through the
chapters, you will

learn to efficiently
use the Jupyter
Notebook to operate
and manipulate data
using NumPy and
the pandas library. In
the concluding
chapters, you will
gain experience in
building simple
predictive models
and carrying out

statistical
computation and
analysis using rich
Python tools and
proven data analysis
techniques. By the
end of this book, you
will have hands-on
experience
performing data
analysis with Python.
What you will learn

Explore important
Python libraries and
learn to install
Anaconda
distribution
Understand the
basics of NumPy
Produce informative
and useful
visualizations for
analyzing data
Perform common

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statistical
calculations Build
predictive models
and understand the
principles of
predictive analytics
Who this book is for
Become a Python
Data Analyst is for
entry-level data
analysts, data
analysts, data
engineers, and BI

professionals who
want to make
complete use of
Python tools for
performing efficient
data analysis. Prior
knowledge of Python
programming is
necessary to
understand the
concepts covered in
this book

Python: Advanced
Predictive Analytics
A Practical
Implementation
Guide to Predictive
Data Analytics Using
Python
Data Science For
Dummies
Ingesting,
Transforming,
Visualizing

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Data Science for
Business Problems
Unlocking Text Data
with Machine
Learning and Deep
Learning using
Python
Hands-On Data
Science and Python
Machine Learning
Data Science and
Analytics with

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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 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 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 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

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recognition, and artificial intelligence that underpin the algorithms and implementations used in the rest of the book also appear in the first part of the book. Regression analysis using Python, clustering

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techniques, and
classification
algorithms are
covered in the
second part of the
book. Hierarchical
clustering, decision
trees, and
ensemble
techniques are also
explored, along
with dimensionality
reduction

techniques and recommendation systems. The support vector machine algorithms and the Kernel trick are discussed in the last part of the book. 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 College London, UK and a member of the School of Physics,

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Astronomy and
Mathematics at the
University of
Hertfordshire, UK,
He obtained his
doctorate in
physics at Imperial
College London for
work on quantum
atom optics and
ultra-cold matter.
He has held a
position as senior

lecturer in
mathematics as
well as a consultant
in the financial
industry since
2006. He is the
author of the book
Essential Matlab
and Octave, also
published by CRC
Press. His interests
include
mathematical

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modelling, data science, and optimization in a wide range of applications including optics, quantum mechanics, data journalism, and finance.

This book covers the fundamentals of machine learning

with Python in a
concise and
dynamic manner. It
covers data mining
and large-scale
machine learning
using Apache
Spark. About This
Book Take your
first steps in the
world of data
science by
understanding the

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tools and techniques of data analysis Train efficient Machine Learning models in Python using the supervised and unsupervised learning methods Learn how to use Apache Spark for processing Big Data efficiently

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Who This Book Is
For If you are a
budding data
scientist or a data
analyst who wants
to analyze and gain
actionable insights
from data using
Python, this book is
for you.
Programmers with
some experience in
Python who want to

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enter the lucrative
world of Data
Science will also
find this book to be
very useful, but you
don't need to be an
expert Python
coder or
mathematician to
get the most from
this book. What You
Will Learn Learn
how to clean your

data and ready it for analysis Implement the popular clustering and regression methods in Python Train efficient machine learning models using decision trees and random forests Visualize the results of your

analysis using
Python's Matplotlib
library Use 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
algorithms, as he

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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
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
interesting and
easy-to-follow
practical examples,
Frank Kane
explains potentially
complex topics
such as Bayesian
methods and K-

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means clustering in a way that anybody can understand them. Based on Frank's successful data science course, Hands-On Data Science and Python Machine Learning empowers you to conduct data analysis and perform efficient

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machine learning
using Python. Let
Frank help you
unearth the value
in your data using
the various data
mining and data
analysis techniques
available in Python,
and to develop
efficient predictive
models to predict
future results. You

will also learn how
to perform large-
scale machine
learning on Big
Data using Apache
Spark. The book
covers preparing
your data for
analysis, training
machine learning
models, and
visualizing the final
data analysis. Style

and approach This
comprehensive
book is a perfect
blend of theory and
hands-on code
examples in Python
which can be used
for your reference
at any time.
Gain practical
insights by
exploiting data in
your business to

build advanced
predictive modeling
applications About
This Book A step-by-step guide to
predictive modeling
including lots of
tips, tricks, and
best practices
Learn how to use
popular predictive
modeling
algorithms such as

Linear Regression,
Decision Trees,
Logistic Learning
Regression, and
Clustering Master
open source Python
tools to build
sophisticated
predictive models
Who This Book Is
For This book is
designed for
business analysts,

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BI analysts, data scientists, or junior level data analysts who are ready to move on from a conceptual understanding of advanced analytics and become an expert in designing and building advanced analytics solutions using

Python. If you are
familiar with
coding in Python
(or some other prog
ramming/statistical
/scripting
language) but have
never used or read
about predictive
analytics
algorithms, this
book will also help
you. What You Will

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Learn Understand
the statistical and
mathematical
concepts behind
predictive analytics
algorithms and
implement them
using Python
libraries Get to
know various
methods for
importing,
cleaning, sub-

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setting, merging,
joining,
concatenating,
exploring,
grouping, and
plotting data with
pandas and NumPy
Master the use of
Python notebooks
for exploratory data
analysis and rapid
prototyping Get to
grips with applying

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regression, classification, clustering, and deep learning algorithms Discover advanced methods to analyze structured and unstructured data Visualize the performance of models and the insights they

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produce Ensure the
robustness of your
analytic
applications by
mastering the best
practices of
predictive analysis
In Detail Social
Media and the
Internet of Things
have resulted in an
avalanche of data.
Data is powerful

but not in its raw
form; it needs to be
processed and
modeled, and
Python is one of the
most robust tools
out there to do so.
It has an array of
packages for
predictive modeling
and a suite of IDEs
to choose from.
Using the Python

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programming language, analysts can use these sophisticated methods to build scalable analytic applications. This book is your guide to getting started with predictive analytics using Python. You'll balance both

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statistical and
mathematical
concepts, and
implement them in
Python using
libraries such as
pandas, scikit-
learn, and NumPy.
Through case
studies and code
examples using
popular open-
source Python

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libraries, this book illustrates the complete development process for analytic applications. Covering a wide range of algorithms for classification, regression, clustering, as well as cutting-edge techniques such as

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deep learning, this
book illustrates
explains how these
methods work. You
will learn to choose
the right approach
for your problem
and how to develop
engaging
visualizations to
bring to life the
insights of
predictive

modeling. Finally,
you will learn best
practices in
predictive
modeling, as well
as the different
applications of
predictive modeling
in the modern
world. The course
provides you with
highly practical
content from the

following Packt
books: 1. Learning
Predictive Analytics
with Python 2.
Mastering
Predictive Analytics
with Python Style
and approach This
course aims to
create a smooth
learning path that
will teach you how
to effectively

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perform predictive
analytics using
Python. Through
this comprehensive
course, you'll learn
the basics of
predictive analytics
and progress to
predictive modeling
in the modern
world.
Implement natural
language

processing
applications with
Python using a
problem-solution
approach. This
book has numerous
coding exercises
that will help you to
quickly deploy
natural language
processing
techniques, such as
text classification,

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parts of speech
identification, topic
modeling, text
summarization, text
generation, entity
extraction, and
sentiment analysis.
Natural Language
Processing Recipes
starts by offering
solutions for
cleaning and
preprocessing text

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data and ways to
analyze it with
advanced
algorithms. You'll
see practical
applications of the
semantic as well as
syntactic analysis
of text, as well as
complex natural
language
processing
approaches that

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involve text
normalization,
advanced
preprocessing, POS
tagging, and
sentiment analysis.
You will also learn
various
applications of
machine learning
and deep learning
in natural language
processing. By

using the recipes in this book, you will have a toolbox of solutions to apply to your own projects in the real world, making your development time quicker and more efficient. What You Will LearnApply NLP techniques using Python

libraries such as NLTK, TextBlob, spaCy, Stanford CoreNLP, and many more Implement the concepts of information retrieval, text summarization, sentiment analysis, and other advanced natural language

processing
techniques. Identify
machine learning
and deep learning
techniques for
natural language
processing and
natural language
generation
problems Who This
Book Is ForData
scientists who want
to refresh and learn

various concepts of
natural language
processing through
coding exercises.
Data Science and
Analytics with
Python
Learn R and Python
in Parallel
Python Data
Science Handbook
Data Analytics with
Hadoop

Applied Univariate, Bivariate, and Multivariate Statistics Using Python Case Studies with Python Advanced Data Analytics Using Python This textbook grew out of notes for the

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
degrees in

Analytics Using
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,
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 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 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
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 its many 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 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 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 and type along with the many code samples.

This book focuses on three

core knowledge
requirements for
effective and
thorough data
analysis for
solving business
problems. These
are a
foundational
understanding
of: 1.
statistical,
econometric, and
machine learning

techniques; 2. data handling capabilities; 3. at least one programming language. Practical in orientation, the volume offers illustrative case studies throughout and examples using Python in the

context of

Jupyter

notebooks.

Covered topics

include demand

measurement and

forecasting,

predictive

modeling,

pricing

analytics,

customer

satisfaction

assessment,

market and advertising research, and new product development research. This volume will be useful to business data analysts, data scientists, and market research professionals, as well as

aspiring practitioners in business data analytics. It can also be used in colleges and universities offering courses and certifications in business data analytics, data science, and market research.

Learn a modern approach to data analysis using Python to harness the power of programming and AI across your data. Detailed case studies bring this modern approach to life across visual data,

social media,
graph
algorithms, and
time series
analysis. Key
FeaturesBridge
your data
analysis with
the power of
programming,
complex
algorithms, and
AIUse Python and
its extensive
library

libraries to
power your way
to new levels of
data insightWork
with AI
algorithms,
TensorFlow,
graph
algorithms, NLP,
and financial
time
seriesExplore
this modern
approach across

with key industry case studies and hands-on Deep Learning projectsBook Description Data Analysis with Python offers a modern approach to data analysis so that you can work with the latest and most powerful Python

tools, AI
techniques, and
open source
libraries.
Industry experts
David Taieb
shows you how to
bridge data
science with the
power of
programming and
algorithms in
Python. You'll
be working with

complex
algorithms, and
cutting-edge AI
in your data
analysis. Learn
how to analyze
data with hands-
on examples
using Python-
based tools and
Jupyter
Notebook. You'll
find the right
balance of

theory and practice, with extensive code files that you can integrate right into your own data projects. Explore the power of this approach to data analysis by then working with it across key

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industry case
studies. Four
fascinating and
full projects
connect you to
the most
critical data
analysis
challenges
you're likely to
meet in today.
The first of
these is an
image

recognition
application with
TensorFlow –
embracing the
importance today
of AI in your
data analysis.
The second
industry project
analyses social
media trends,
exploring big
data issues and
AI approaches to

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natural language
processing. The
third case study
is a financial
portfolio
analysis
application that
engages you with
time series
analysis -
pivotal to many
data science
applications
today. The

fourth industry
use case dives
you into graph
algorithms and
the power of
programming in
modern data
science. You'll
wrap up with a
thoughtful look
at the future of
data science and
how it will
harness the

power of
algorithms and
artificial
intelligence.
What you will
learnA new
toolset that has
been carefully
crafted to meet
for your data
analysis
challengesFull
and detailed
case studies of

the toolset
across several
of today's key
industry
contextsBecome
super productive
with a new
toolset across
Python and
Jupyter
NotebookLook
into the future
of data science
and which

directions to develop your skills nextWho this book is for This book is for developers wanting to bridge the gap between them and data scientists. Introducing PixieDust from its creator, the book is a great

desk companion for the accomplished Data Scientist. Some fluency in data interpretation and visualization is assumed. It will be helpful to have some knowledge of Python, using

Python libraries, and some proficiency in web development.

Introduction 1PYTHON DATA ANALYTICS - The Ultimate Guide to Learn Python Data AnalyticsHave you ever thought about data

analytics? Are
you looking for
an excellent
tool to use in
your data
analysis? Well,
analysis? Well,
you have come to
the right place.
Python is one of
the best tools
that you can use
for your data
analysis for
several reasons;

Flexibility &
Ease of learning
If you are
trying something
creative that no
one has ever
done before,
then Python is
the best way to
go. It also
ideal for any
developer that
is looking for a
program that

will allow them
to script
websites and
applications.
The best thing
that I love
about Python is
its readability
and simplicity,
which goes a
long way in
boosting a
gradual and
relatively low

learning curve. It is open source This means that Python is an open-source program that also has built a valuable community-based model. It is designed to run on different OS ranging from

Windows to Linux environments. The good thing with this language is that you can easily port it to a wide range of platforms. It is well-supported Did you know that anything that could go wrong goes

wrong? Think
about it, if you
are using
something that
you did not have
to pay for, will
you get the help
that you need
quickly? Well,
the truth is a d
efinite-
NO!Introduction
2PYTHON DATA
ANALYTICS -

Comprehensive
Guide of Tips
and Tricks using
Python Data
Analytics
TheoriesHave you
always wondered
what it is that
you can do with
the vast volumes
of data that you
have collected?
Is there some
way to make it

easier to visualize the data to understand it better? If you answered yes to these questions, you have come to the right place. Data can be collected from different sources and devices, and it

is important to understand and analyze that data. The data collected has a lot of information that will need to be uncovered to make better decisions in the future. Before you look at the different types

of data analytics, it is important that you understand what big data isThis book will help you learn more about how you can do this.Throughout the book, you will gather information about: -What is

data, and the different forms of data-An introduction to big data, data analytics and data science -An in-depth analysis and understanding of big data analytics-The differences between big

data, data science and data analytics-An introduction to Python-How to work with functions, strings and data structures-Understanding data mining-What data integration is-How to work on predictive an

alytics-
Developing a
simple linear
regression,
multiple
regression, and
classification
algorithm in
PythonThis book
will help you
learn more about
data analytics
and what you can
use it for. So,

what are you
waiting for?
Grab a copy of
this book to get
started today. In
troduction

3PYTHON DATA

ANALYTICS -

Advanced and

Effective

Strategies of

Using Python

Data

AnalyticsDoes

your business
have large
volumes of data
that nobody
knows how to
use? Do you
collect data
from various
sources to
perform the
analysis? Have
you always
wondered what
you should do

with incorrect data sets? If you answered you yes, then you have come to the right place. You will learn the different processes and steps you must take to analyze different types of data. In this book, you will

learn more about: -What is data analytics, and why is it important?-The different types of data analytics-The process -Different algorithms used to perform data analytics-Identifying

different
sources of data
and mining the
required
information
-Preparing the
data-Visualizing
the data-An
introduction to
Python -Using
Python to clean
and manipulate
data-Developing
a simple

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predictive model in PythonYou will learn all and more in this book. So, what are you waiting for? Grab a copy of this book now.

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Python and R
With

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Patterns, Text
and Image
Classification,
and Optimization
Techniques
Python for Data
Analysis
Python: Data
Analytics and
Visualization
Advanced
Analytics and
Graphics

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Gain practical insights into predictive modelling by implementing Predictive Analytics algorithms on public datasets with Python About This Book A step-by-step guide to predictive

modeling including lots of tips, tricks, and best practices Get to grips with the basics of Predictive Analytics with Python Learn how to use the popular predictive modeling algorithms such as Linear

Regression,
Decision Trees,
Logistic
Regression, and
Clustering Who
This Book Is For
If you wish to
learn how to
implement
Predictive
Analytics
algorithms using
Python libraries,

then this is the book for you. If you are familiar with coding in Python (or some other programmin g/statistical/scripti ng language) but have never used or read about Predictive Analytics algorithms, this

book will also help you. The book will be beneficial to and can be read by any Data Science enthusiasts. Some familiarity with Python will be useful to get the most out of this book, but it is certainly not a

prerequisite. What
You Will Learn
Understand the
statistical and
mathematical
concepts behind
Predictive
Analytics
algorithms and
implement
Predictive
Analytics
algorithms using

Python libraries
Analyze the result
parameters
arising from the
implementation of
Predictive
Analytics
algorithms Write
Python
modules/functions
from scratch to
execute segments
or the whole of

these algorithms
Recognize and
mitigate various
contingencies and
issues related to
the
implementation of
Predictive
Analytics
algorithms Get to
know various
methods of
importing,

cleaning, subsetting, merging, joining, concatenating, exploring, grouping, and plotting data with pandas and numpy Create dummy datasets and simple mathematical simulations using

the Python numpy
and pandas
libraries
Understand the
best practices
while handling
datasets in Python
and creating
predictive models
out of them In
Detail Social
Media and the
Internet of Things

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Machine Learning
Deep Learning
And Nlp Examples

have resulted in
an avalanche of
data. Data is
powerful but not
in its raw form - It
needs to be
processed and
modeled, and
Python is one of
the most robust
tools out there to
do so. It has an
array of packages

for predictive
modeling and a
suite of IDEs to
choose from.
Learning to
predict who would
win, lose, buy, lie,
or die with Python
is an
indispensable skill
set to have in this
data age. This
book is your guide

to getting started with Predictive Analytics using Python. You will see how to process data and make predictive models from it. We balance both statistical and mathematical concepts, and implement them in

Python using
libraries such as
pandas, scikit-
learn, and numpy.
You'll start by
getting an
understanding of
the basics of
predictive
modeling, then
you will see how
to cleanse your
data of impurities

and get it ready it
for predictive
modeling. You will
also learn more
about the best
predictive
modeling
algorithms such as
Linear
Regression,
Decision Trees,
and Logistic
Regression.

Finally, you will see the best practices in predictive modeling, as well as the different applications of predictive modeling in the modern world. Style and approach All the concepts in this

book been
explained and
illustrated using a
dataset, and in a
step-by-step
manner. The
Python code
snippet to
implement a
method or concept
is followed by the
output, such as
charts, dataset

Analytics Using

heads, pictures,

Python With

and so on. The

statistical learning

concepts are

explained in detail

wherever

required.

In this practical

book, four

Cloudera data

scientists present

a set of self-

contained patterns

for performing
large-scale data
analysis with
Spark. The
authors bring
Spark, statistical
methods, and real-world data sets
together to teach
you how to
approach analytics
problems by
example. You'll

start with an
introduction to
Spark and its
ecosystem, and
then dive into
patterns that
apply common tec
hniques—classificat
ion, collaborative
filtering, and
anomaly detection
among others—to
fields such as

genomics, security, and finance. If you have an entry-level understanding of machine learning and statistics, and you program in Java, Python, or Scala, you'll find these patterns useful for working

on your own data applications. Patterns include: Recommending music and the Audioscrobbler data set Predicting forest cover with decision trees Anomaly detection in network traffic with K-means

clustering
Understanding
Wikipedia with
Latent Semantic
Analysis
Analyzing co-
occurrence
networks with
GraphX Geospatial
and temporal data
analysis on the
New York City
Taxi Trips data

Estimating financial risk through Monte Carlo simulation

Analyzing genomics data and the BDG project

Analyzing neuroimaging data with PySpark and Thunder

Advanced Data Analysis and

Modeling in Chemical Engineering provides the mathematical foundations of different areas of chemical engineering and describes typical applications. The book presents the key areas of

chemical engineering, their mathematical foundations, and corresponding modeling techniques. Modern industrial production is based on solid scientific methods, many of which are part of

chemical
engineering. To
produce new
substances or
materials,
engineers must
devise special
reactors and
procedures, while
also observing
stringent safety
requirements and
striving to

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optimize the efficiency jointly in economic and ecological terms. In chemical engineering, mathematical methods are considered to be driving forces of many innovations in material design and process

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development.
Presents the main
mathematical
problems and
models of
chemical
engineering and
provides the
reader with
contemporary
methods and tools
to solve them
Summarizes in a

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clear and straightforward way, the contemporary trends in the interaction between mathematics and chemical engineering vital to chemical engineers in their daily work

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Includes classical analytical methods, computational methods, and methods of symbolic computation Covers the latest cutting edge computational methods, like symbolic

computational
methods
Ready to use
statistical and
machine-learning
techniques across
large data sets?
This practical
guide shows you
why the Hadoop
ecosystem is
perfect for the
job. Instead of

Analytics Using deployment, operations, or software Learning development usually associated with distributed computing, you'll focus on particular analyses you can build, the data warehousing techniques that Hadoop provides,

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and higher order
data workflows
this framework
can produce. Data
scientists and
analysts will learn
how to perform a
wide range of
techniques, from
writing
MapReduce and
Spark applications
with Python to

Analytics Using
using advanced
modeling and data
management with
Spark MLlib, Hive,
and HBase. You'll
also learn about
the analytical
processes and
data systems
available to build
and empower data
products that can
handle—and

actually
require—huge
amounts of data.
Understand core
concepts behind
Hadoop and
cluster computing
Use design
patterns and
parallel analytical
algorithms to
create distributed
data analysis jobs

Learn about data management, mining, and warehousing in a distributed context using Apache Hive and HBase Use Sqoop and Apache Flume to ingest data from relational databases Program complex

Hadoop and Spark applications with Apache Pig and Spark DataFrames Perform machine learning techniques such as classification, clustering, and collaborative filtering with Spark's MLlib Advanced Data

Analysis and
Modelling in
Chemical
Engineering
Perform Data
Collection, Data
Processing,
Wrangling,
Visualization, and
Model Building
Using Python
A Tour of Data
Science

Advanced
Analytics with
Spark
The Ultimate
Expert Guide:
Advanced
Features, Object-
Oriented
Programming,
Data Analysis,
Artificial
Intelligence and
Machine Learning

Analytics Using
with Python
Mastering
Machine Learning
with Python in Six
Steps
Computational
Learning
Approaches to
Data Analytics in
Biomedical
Applications
Discover how data

science can help you gain in-depth insight into your business - the easy way! Jobs in data science abound, but few people have the data science skills needed to fill these increasingly important roles. Data Science For

Dummies is the perfect starting point for IT professionals and students who want a quick primer on all areas of the expansive data science space. With a focus on business cases, the book explores topics in

big data, data science, and data engineering, and how these three areas are combined to produce tremendous value. If you want to pick-up the skills you need to begin a new career or initiate a new project, reading

this book will help you understand what technologies, programming languages, and mathematical methods on which to focus. While this book serves as a wildly fantastic guide through the broad, sometimes

intimidating field of big data and data science, it is not an instruction manual for hands-on implementation. Here's what to expect: Provides a background in big data and data engineering before moving on to data

science and how it's applied to generate value Includes coverage of big data frameworks like Hadoop, MapReduce, Spark, MPP platforms, and NoSQL Explains machine learning and many of its algorithms as well

as artificial
intelligence and the
evolution of the
Internet of Things
Details data
visualization
techniques that can
be used to showcase,
summarize, and
communicate the
data insights you
generate It's a big,

big data world out there—let Data Science For Dummies help you harness its power and gain a competitive edge for your organization. Statistical Computation for Programmers, Scientists, Quants,

Excel Users, and
Other Professionals
Using the open
source R language,
you can build
powerful statistical
models to answer
many of your most
challenging
questions. R has
traditionally been
difficult for non-

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Deep Learning

statisticians to learn, and most R books assume far too much knowledge to be of help. R for Everyone, Second Edition, is the solution. Drawing on his unsurpassed experience teaching new users, professional data

*scientist Jared P.
Lander has written
the perfect tutorial
for anyone new to
statistical
programming and
modeling.
Organized to make
learning easy and
intuitive, this guide
focuses on the 20
percent of R*

functionality you'll need to accomplish 80 percent of modern data tasks. Lander's self-contained chapters start with the absolute basics, offering extensive hands-on practice and sample code. You'll download

*and install R;
navigate and use the
R environment;
master basic
program control,
data import,
manipulation, and
visualization; and
walk through
several essential
tests. Then, building
on this foundation,*

you'll construct several complete models, both linear and nonlinear, and use some data mining techniques. After all this you'll make your code reproducible with LaTeX, RMarkdown, and Shiny. By the time

you're done, you won't just know how to write R programs, you'll be ready to tackle the statistical problems you care about most. Coverage includes Explore R, RStudio, and R packages Use R for math: variable

types, vectors, calling functions, and more Exploit data structures, including data.frames, matrices, and lists Read many different types of data Create attractive, intuitive statistical graphics Write user-defined

functions Control program flow with if, ifelse, and complex checks Improve program efficiency with group manipulations Combine and reshape multiple datasets Manipulate strings using R's

facilities and regular expressions Create normal, binomial, and Poisson probability distributions Build linear, generalized linear, and nonlinear models Program basic statistics: mean, standard deviation,

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and t-tests Train machine learning models Assess the quality of models and variable selection Prevent overfitting and perform variable selection, using the Elastic Net and Bayesian methods Analyze univariate

and multivariate time series data Group data via K-means and hierarchical clustering Prepare reports, slideshows, and web pages with knitr Display interactive data with RMarkdown and htmlwidgets

Implement dashboards with Shiny Build reusable R packages with devtools and Rcpp Register your product at informit. com/register for convenient access to downloads, updates, and corrections as they become

available. Computational Learning Approaches to Data Analytics in Biomedical Applications provides a unified framework for biomedical data analysis using varied machine

learning and statistical techniques. It presents insights on biomedical data processing, innovative clustering algorithms and techniques, and connections between statistical

analysis and clustering. The book introduces and discusses the major problems relating to data analytics, provides a review of influential and state-of-the-art learning algorithms for biomedical applications,

reviews cluster validity indices and how to select the appropriate index, and includes an overview of statistical methods that can be applied to increase confidence in the clustering framework and

analysis of the results obtained. Includes an overview of data analytics in biomedical applications and current challenges Updates on the latest research in supervised learning algorithms and

applications, clustering algorithms and cluster validation indices Provides complete coverage of computational and statistical analysis tools for biomedical data analysis Presents hands-on training

on the use of Python libraries, MATLAB® tools, WEKA, SAP-HANA and R/Bioconductor Python Data Analytics will help you tackle the world of data acquisition and analysis using the power of the Python language. At

the heart of this book lies the coverage of pandas, an open source, BSD-licensed library providing high-performance, easy-to-use data structures and data analysis tools for the Python programming

language. Author Fabio Nelli expertly shows the strength of the Python programming language when applied to processing, managing and retrieving information. Inside, you will see how

*intuitive and flexible
it is to discover and
communicate
meaningful patterns
of data using
Python scripts,
reporting systems,
and data export.
This book examines
how to go about
obtaining,
processing, storing,*

managing and analyzing data using the Python programming language. You will use Python and other open source tools to wrangle data and tease out interesting and important trends in that data that will

allow you to predict future patterns. Whether you are dealing with sales data, investment data (stocks, bonds, etc.), medical data, web page usage, or any other type of data set, Python can be used to interpret, analyze, and glean

information from a pile of numbers and statistics. This book is an invaluable reference with its examples of storing and accessing data in a database; it walks you through the process of report generation; it provides three real

world case studies
or examples that
you can take with
you for your
everyday analysis
needs.
Five Case Studies
for the Data
Scientist
Hands-On
Predictive Analytics
with Python

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*Advanced Analytics
in Power BI with R
and Python
With Machine
Learning, Deep
Learning and NLP
Examples
Python for Data
Analytics
A Beginner's Guide
to Advanced Data
Analysis*

Humanities Data Analysis

A Tour of Data
Science: Learn R and
Python in Parallel
covers the
fundamentals of data
science, including
programming,
statistics,
optimization, and
machine learning in a
single short book. It

Analytics Using Python With Machine Learning Deep Learning And Nlp Examples does not cover everything, but rather, teaches the key concepts and topics in Data Science. It also covers two of the most popular programming languages used in Data Science, R and Python, in one source. Key features: Allows you to learn R

and Python in parallel
Cover statistics,
programming,
optimization and
predictive modelling,
and the popular data
manipulation tools –
data.table and
pandas Provides a
concise and
accessible
presentation Includes
machine learning
algorithms

implemented from scratch, linear regression, lasso, ridge, logistic regression, gradient boosting trees, etc. Appealing to data scientists, statisticians, quantitative analysts, and others who want to learn programming with R and Python from a

Gain a broad
foundation of
advanced data
analytics concepts
and discover the
recent revolution in
databases such as
Neo4j, Elasticsearch,
and MongoDB. This
book discusses how
to implement ETL
techniques including

topical crawling, which is applied in domains such as high-frequency algorithmic trading and goal-oriented dialog systems. You'll also see examples of machine learning concepts such as semi-supervised learning, deep learning, and NLP. Advanced Data

Analytics Using
Python also covers
important traditional
data analysis
techniques such as
time series and
principal component
analysis. After
reading this book you
will have experience
of every technical
aspect of an analytics
project. You'll get
to know the concepts

using Python code,
giving you samples to
use in your own
projects. What You
Will Learn Work with
data analysis
techniques such as
classification,
clustering,
regression, and
forecasting Handle
structured and
unstructured data,
ETL techniques, and

different kinds of databases such as Neo4j, Elasticsearch, MongoDB, and MySQL Examine the different big data frameworks, including Hadoop and Spark Discover advanced machine learning concepts such as semi-supervised learning, deep learning, and

NLP Who This Book Is
For Data scientists
and software
developers interested
in the field of data
analytics.
Learn advanced
techniques to
improve the
performance and
quality of your
predictive models
Key FeaturesUse
ensemble methods to

improve the performance of predictive analytics models Implement feature selection, dimensionality reduction, and cross-validation techniques Develop neural network models and master the basics of deep learning Book Description Python is

a programming
language that
provides a wide
range of features that
can be used in the
field of data science.
Mastering Predictive
Analytics with scikit-
learn and TensorFlow
covers various
implementations of
ensemble methods,
how they are used
with real-world

datasets, and how they improve prediction accuracy in classification and regression problems. This book starts with ensemble methods and their features. You will see that scikit-learn provides tools for choosing hyperparameters for models. As you make your way through the

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book, you will cover the nitty-gritty of predictive analytics and explore its features and characteristics. You will also be introduced to artificial neural networks and TensorFlow, and how it is used to create neural networks. In the final chapter, you

will explore factors
such as With
computational
power, along with
improvement
methods and
software
enhancements for
efficient predictive
analytics. By the end
of this book, you will
be well-versed in
using deep neural
networks to solve

common problems in big data analysis. What you will learnUse ensemble algorithms to obtain accurate predictionsApply dimensionality reduction techniques to combine features and build better modelsChoose the optimal hyperparameters

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using cross-validationImplement different techniques to solve current challenges in the predictive analytics domainUnderstand various elements of deep neural network (DNN) modelsImplement neural networks to solve both classification and

regression problemsWho this book is for Mastering Predictive Analytics with scikit-learn and TensorFlow is for data analysts, software engineers, and machine learning developers who are interested in implementing advanced predictive analytics using

Python. Business intelligence experts will also find this book indispensable as it will teach them how to progress from basic predictive models to building advanced models and producing more accurate predictions. Prior knowledge of Python and familiarity with

predictive analytics concepts are assumed. Applied Univariate, Bivariate, and Multivariate Statistics Using Python A practical, " how-to" reference for anyone performing essential statistical analyses and data management tasks in Python Applied

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Univariate, Bivariate, and Multivariate Statistics Using Python delivers a comprehensive introduction to a wide range of statistical methods performed using Python in a single, one-stop reference. The book contains user-friendly guidance and

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instructions on using Python to run a variety of statistical procedures without getting bogged down in unnecessary theory. Throughout, the author emphasizes a set of computational tools used in the discovery of empirical patterns, as well as several popular statistical

analyses and data management tasks that can be Learning immediately applied. Most of the datasets used in the book are small enough to be easily entered into Python manually, though they can also be downloaded for free from www.datapsyc.com. Only minimal

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knowledge of statistics is assumed, making the book perfect for those seeking an easily accessible toolkit for statistical analysis with Python. Applied Univariate, Bivariate, and Multivariate Statistics Using Python represents the fastest way to learn how to analyze

data with Python. Readers will also benefit from the inclusion of: A review of essential statistical principles, including types of data, measurement, significance tests, significance levels, and type I and type II errors An introduction to Python, exploring

how to communicate with Python A treatment of exploratory data analysis, basic statistics and visual displays, including frequencies and descriptives, q-q plots, box-and-whisker plots, and data management An introduction to topics such as ANOVA,

MANOVA and
discriminant analysis,
regression, principal
components analysis,
factor analysis,
cluster analysis,
among others,
exploring the nature
of what these
techniques can vs.
cannot do on a
methodological level
Perfect for
undergraduate and

graduate students in the social, behavioral, and natural sciences, Applied Univariate, Bivariate, and Multivariate Statistics Using Python will also earn a place in the libraries of researchers and data analysts seeking a quick go-to resource for univariate, bivariate, and

multivariate analysis
in Python.
Combine Spark and
Python to Unlock the
Powers of Parallel
Computing and
Machine Learning
Become a Python
Data Analyst
Implement machine
learning techniques
to build advanced
predictive models
using Python

Analytics Using
A Modern Approach
Advancing Into
Analytics Learning
Natural Language
Processing Recipes
Python Data
Analytics
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

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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

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use arrays and array-oriented computing in data analysis Process and analyze data using the time-series capabilities of Pandas Understand the statistical

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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

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process raw
data into pure
and helpful
data using
examples. You
will also get
a brief
overview of
machine
learning
algorithms,
that is,

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applying data
analysis
results to
make decisions
or building
helpful
products such
as recommendat
ions 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.

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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

Analytics Using
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 p
redictive-

analytics
algorithms on
public
datasets with
Python. The
course offers
a wealth of
practical
guidance to
help you on
this journey
to data

visualization
Advanced Data
Science and
Analytics with
Python enables
data
scientists to
continue
developing
their skills
and apply them
in business as

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well as
academic
settings. The
subjects
discussed in
this book are
complementary
and a follow-
up to the
topics
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 as SciKit-learn,

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

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Core ML, as
well as Swift
for the
development of
iOS and MacOS
applications.
Features:
Targets
readers with a
background in
programming,
who are

Analytics Using
interested in
Python With
the tools used
Machine Learning
in data
analytics and
data science
Uses Python
throughout
Presents
tools,
alongside
solved
examples, with

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steps that the reader can easily reproduce and adapt to their needs Focuses on the practical use of the tools rather than on lengthy explanations

Provides the reader with the opportunity to use the book whenever needed rather than following a sequential path The book can be read independently

from the previous volume and each of the chapters in this volume is sufficiently independent from the others, providing flexibility

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for the
reader. Each
of the topics
addressed in
the book
tackles the
data science
workflow from
a practical
perspective,
concentrating
on the process

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

processing, topic modelling, social network analysis, neural networks and deep learning are comprehensively covered. The book discusses the

need to
develop data
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.
About the
Author Dr.
Jesús Rogel-
Salazar is a
lead data
scientist in
the field,
working for
companies such

as Tympa Health Technologies, Barclays, AKQA, IBM Data Science Studio and Dow Jones. He is a visiting researcher at the Department of Physics at

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Imperial
College
London, UK and
a member of
the School of
Physics,
Astronomy and
Mathematics at
the University
of
Hertfordshire,
UK.

Does your business have large volumes of data that nobody knows how to use? Do you collect data from various sources to perform the analysis? Have

you always
wondered what
you should do
with incorrect
data sets? If
you answered
yes, then you
have come to
the right
place.
Businesses
often collect

Analytics Using
information
from different
devices and
sources.
Therefore, it
is important
to understand,
interpret, and
analyze that
data.
Businesses can
use this data

to make sound decisions to improve processes and efficiency. That said, businesses must hire professionals who can work with large volumes of

Analytics Using Python. If you are a budding data analyst or want to brush up your concepts, this book is for you. You will learn the different processes and steps you must

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take to
analyze
different
types of data.
In this book,
you will learn
more about:
-What is data
analytics, and
why is it
important?-The
different

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types of data
analytics-The
process
-Different
algorithms
used to
perform data a
nalytics-
Identifying
different
sources of
data and

mining the required information -Preparing the data-Visualizing the data-An introduction to Python -Using Python to clean and manipulate dat

a-Developing a
simple
predictive
model in
PythonYou will
learn all this
and more in
the book. So,
what are you
waiting for?
Grab a copy of
this book now.

Look at Python
from a data
science point
of view and
learn proven
techniques for
data
visualization
as used in
making
critical
business

decisions. Starting with an introduction to data science with Python, you will take a closer look at the Python environment and get

acquainted with editors such as Jupyter Notebook and Spyder. After going through a primer on Python programming, you will grasp fundamental

Python
programming
techniques
used in data
science.
Moving on to
data
visualization,
you will see
how it caters
to modern
business needs

and forms a
key factor in
decision-
making. You
will also take
a look at some
popular data
visualization
libraries in
Python.
Shifting focus
to data

structures,
you will learn
the various
aspects of
data
structures
from a data
science
perspective.
You will then
work with file
I/O and

regular expressions in Python, followed by gathering and cleaning data. Moving on to exploring and analyzing data, you will look at advanced data

structures in Python. Then, you will take a deep dive into data visualization techniques, going through a number of plotting systems in Python. In

conclusion,
you will
complete a
detailed case
study, where
you'll get a
chance to
revisit the
concepts
you've covered
so far. What
You Will

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And Nlp Examples

effective
strategies for
gathering and
cleaning data
Integrate the
Seaborn and
Matplotlib
plotting
systems Who
This Book Is
For Developers
with basic

Python Using Python with programming knowledge looking to adopt key strategies for data analysis and visualizations using Python. Python Machine Learning Case

Studies
Python for
Marketing
Research and
Analytics
Learning
Predictive
Analytics with
Python