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From Data. A Short
Learning
Course Yaser S
Abu Mostafa
A Short
Course
Yaser S
Abu
Mostafa

Although the case study

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*research method is
increasingly important
and used by many
researchers it is still not
well understood. Case
Study Research in the
Quick Guides Series
explains the main issues
which have to be
considered before case
study research is
undertaken as well as
providing check lists as to
how to go about using*

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this research approach.

Case study research is not an easy option and this book points out where the challenges are and what needs to be done to become a competent case study researcher. Issues which are given particular attention include different types of case study, the issue of how many cases are required,

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research proposals and
research protocols when
using case studies, the

collection and analysis of
data. Case Study

Research also addressed
the analysis of case study
data, the case study write
up and how to evaluate a
case study.

Utility-Based Learning
from Data provides a
pedagogical, self-
contained discussion of

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*probability estimation
methods via a coherent
approach from the
viewpoint of a decision
maker who acts in an
uncertain environment.*

*This approach is
motivated by the idea
that probabilistic models
are usually not learned
for their own sake;
rather, they are used t*

*Recipes to help you
overcome your data*

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science hurdles using
Java About This Book
This book provides
modern recipes in small
steps to help an
apprentice cook become
a master chef in data
science Use these recipes
to obtain, clean, analyze,
and learn from your
data Learn how to get
your data science
applications to
production and enterprise

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environments effortlessly

Who This Book Is For

This book is for Java

developers who are

familiar with the

fundamentals of data

science and want to

improve their skills to

become a pro. What You

Will Learn Find out how

to clean and make

datasets ready so you

can acquire actual

insights by removing

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noise and outliers
Course Yaser S
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*learning techniques to
retrieve information and
transform data to
knowledge. retrieve
information from large
amount of data in text
format. Familiarize
yourself with cutting-
edge techniques to store
and search large volumes
of data and retrieve*

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Course Yaser S
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*information from large
amounts of data in text
format Develop basic
skills to apply big data
and deep learning
technologies on large
volumes of data Evolve
your data visualization
skills and gain valuable
insights from your data
Get to know a step-by-
step formula to develop
an industry-standard,
large-scale, real-life data*

Download File
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product Gain the skills to
Course Yaser S
visualize data and
Abu Montafa
interact with users

through data insights In
Detail If you are looking
to build data science
models that are good for
production, Java has
come to the rescue. With
the aid of strong libraries
such as MLlib, Weka,
DL4j, and more, you can
efficiently perform all
the data science tasks you

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need to. This unique book provides modern recipes to solve your common and not-so-common data science-related problems. We start with recipes to help you obtain, clean, index, and search data. Then you will learn a variety of techniques to analyze, learn from, and retrieve information from data. You will also understand how to

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handle big data, learn deeply from data, and visualize data. Finally, you will work through unique recipes that solve your problems while taking data science to production, writing distributed data science applications, and much more—things that will come in handy at work. Style and approach This book contains short yet

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very effective recipes to solve most common problems. Some recipes cater to very specific, rare pain points. The recipes cover different data sets and work very closely to real production environments

Master the world of Machine Learning and Data Science with this comprehensive 2-in-1 bundle. If you want to

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*learn more about
Machine Learning and
Data Science or how to
master them with Python
quickly and easily, then
keep reading. Data
Science and Machine
Learning are the biggest
buzzwords in the business
world nowadays. Many
businesses know the
importance of collecting
information, but as they
can collect so much data*

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From Data A Short
*in a short period, the real
question is: "what is the
next step?" Data Science
includes all the different
procedures that must be
implemented when
working with data:
collecting and cleaning
them, analyzing them,
applying Machine
Learning algorithms and
models, and then
presenting your findings
from the analysis with*

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some good data

*visualizations. Machines
and automation represent*

*a huge part of our daily
life. They are becoming
part of our experience,*

*and existence. Artificial
Intelligence is currently*

*one of the most thriving
fields any programmer
would wish to delve into,*

*and for a good reason:
this is the future! Simply*

put, Machine Learning is

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*about teaching machines
to think and make
decisions as we would.*

*The difference between
the way machines learn
and the way we do is that
while for the most part
we learn from
experiences, machines
learn from data. In book
one, PYTHON
MACHINE LEARNING,
you will learn: What is
Machine Learning and*

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*how it is applied in real-
world situations*

*Understanding the
differences between
Machine Learning, Deep
Learning, and Artificial
Intelligence Machine
learning training models,
Regression techniques
and Linear Regression in
Python How to use Lists
and Modules in Python
The 12 essential libraries
for Machine Learning in*

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*Python Artificial Neural
Networks And Much*

More! In book two,

PYTHON DATA

SCIENCE, you will

learn: What Data Science

is all about and why so

many companies are

using it to give them a

competitive edge. Why

Python and how to use it

to implement Data

Science The main Data

Structures & Object-

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*Oriented Programming,
Functions and Modules
in Python with practical
codes and exercises The
7 most important
algorithms and models in
Data Science Data
Aggregation, Group
Operations, Databases
and Data in the Cloud 9
important Data Mining
techniques in Data
Science And So Much
More! Where most books*

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*only focus on how
collecting and cleaning
the data, this book goes*

*further, providing
guidance on how to
perform a proper
analysis in order to
extract precious
information that may be
vital for a business.*

*Don't miss the
opportunity to master the
key points of Machine
Learning technology and*

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understand how
researchers are breaking
the boundaries of Data
Science to mimic human
intelligence in machines.
Even if some concepts of
Machine Learning
algorithms can appear
complex to most
computer programming
beginners, this book takes
the time to explain them
in a simple and concise
way. Understanding

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*Machine Learning and
Data Science is easier
than it looks. You just
need the right guidance.*

*And this book provides
all the knowledge you
need in a simple and
practical way.*

*Regardless of your
previous experience, you
will learn, the techniques
to manipulate and
process datasets, the
principles of Python*

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*programming, and its
most important real-
world applications.*

*Would You Like To
Know More? Scroll Up
and Click on the BUY
NOW Button to Get Your
Copy!*

*Honderdduizend jaar
geleden leefde de Homo
sapiens nog een tamelijk
onbekommerd bestaan in
een uithoek van het
Afrikaanse continent en*

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Abu Mostafa

deelde hij de planeet met ten minste vijf andere menssoorten. Maar op een zeker moment onderging het brein van deze mens een ingrijpende verandering: nu kon hij zich plots verbeelden dat het gras elders wel eens groener zou kunnen zijn, en dus maakte hij zich op om de wereld te veroveren. In Sapiens neemt Yuval

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Noah Harari ons mee op een fascinerende reis door de geschiedenis van de mensheid. Wie zijn we? Waar komen we vandaan? En hoe zijn we zo geworden als we nu zijn? In zijn aanstekelijke relaas laat Harari ons kennismaken met het meest dominante wezen op aarde: de mens.

This book addresses the problems of modeling,

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*prediction, classification,
Course Yaser S
Abu Mostafa
processing in non-
stationary and
unpredictable
environments. It presents
major and well-known
methods and approaches
for the design of systems
able to learn and to fully
adapt its structure and to
adjust its parameters
according to the changes
in their environments.*

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*Also presents the problem
of learning in non-*

*stationary environments,
its interests, its*

applications and

challenges and studies

the complementarities

and the links between the

different methods and

techniques of learning in

evolving and non-

stationary environments.

The book 'Data Intensive

Computing Applications

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Abu-Montaha
*for Big Data' discusses
the technical concepts of
big data, data intensive
computing through
machine learning, soft
computing and parallel
computing paradigms. It
brings together
researchers to report
their latest results or
progress in the
development of the
above mentioned areas.*

Since there are few books

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on this specific subject,
Course Yaser S
the editors aim to provide
Abu Mastafa
a common platform for
researchers working in
this area to exhibit their
novel findings. The book
is intended as a reference
work for advanced
undergraduates and
graduate students, as well
as multidisciplinary,
interdisciplinary and
transdisciplinary
research workers and

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*scientists on the subjects
of big data and
cloud/parallel and
distributed computing,
and explains didactically
many of the core
concepts of these
approaches for practical
applications. It is
organized into 24
chapters providing a
comprehensive overview
of big data analysis
using parallel computing*

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*and addresses the
complete data science
workflow in the cloud, as
well as dealing with
privacy issues and the
challenges faced in a
data-intensive cloud
computing environment.
The book explores both
fundamental and high-
level concepts, and will
serve as a manual for
those in the industry,
while also helping*

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*beginners to understand
the basic and advanced
aspects of big data and
cloud computing.*

[Methods and
Applications
26th International
Conference on Artificial
Neural Networks,
Alghero, Italy, September
11-14, 2017,
Proceedings, Part II
The Art and Science of
Learning from Data.](#)

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[Global Edition](#)

[Mastering Machine](#)

[Learning with Python in
Six Steps](#)

[Machine Learning and
Data Mining in Pattern
Recognition](#)

[This Book Includes:](#)

[Python Machine](#)

[Learning and Data](#)

[Science. A](#)

[Comprehensive Guide](#)

[for Beginners to Master](#)

[Deep Learning, Artificial](#)

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*Intelligence and Data
Science with Python.*

Volume II: A Collection

of Latest Research on

Technology Issues

Foundations and

Applications

The Most Complete

Guide for Beginners to

Mastering Deep

Learning, Artificial

Intelligence and Data

Science with Python. This

Book Includes: Python

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[Machine Learning and
Data Science.](#)
[Sapiens](#)

[Artificial Intelligence and
Statistics V](#)

[Learning from Data
Streams in Dynamic
Environments](#)

**This edited book
covers recent
advances of
techniques,
methods and
tools treating the**

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Abu-Mustafa

**problem of
learning from
data streams
generated by
evolving non-
stationary
processes. The
goal is to discuss
and overview the
advanced
techniques,
methods and
tools that are
dedicated to**

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Abu-Mustafa
**manage, exploit
and interpret
data streams in
non-stationary
environments.**

**The book
includes the
required notions,
definitions, and
background to
understand the
problem of
learning from
data streams in**

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Abu-Mesfer
**non-stationary
environments
and synthesizes
the state-of-the-
art in the
domain,
discussing
advanced aspects
and concepts and
presenting open
problems and
future challenges
in this field.
Provides multiple**

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**examples to
facilitate the
understanding
data streams in
non-stationary
environments;
Presents several
application cases
to show how the
methods solve
different real
world problems;
Discusses the
links between**

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Course Yaser S
Abu-Montafar
**methods to help
stimulate new
research and
application
directions.**

**The two-volume
set LNAI 8397
and LNAI 8398
constitutes the
refereed
proceedings of
the 6th Asian
Conference on
Intelligent**

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**Information and
Database
Systems, ACIIDS
2014, held in
Bangkok,
Thailand in April
2014. The 125
revised papers
presented were
carefully
reviewed and
selected from
300 submissions.
Suggestion: The**

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**aim of the
conference is to
provide an
internationally
respected forum
for scientific
research in the
technologies and
applications of
intelligent
information and
database
systems. The
papers are**

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**organized in
topical sections
on Natural
Language and
Text Processing,
Intelligent
Information
Retrieval,
Semantic Web,
Social Networks
and
Recommendation
Systems,
Intelligent**

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**Database
Systems,
Decision Support
Systems,
Computer Vision
Techniques,
Machine
Learning and
Data Mining,
Multiple Model
Approach to
Machine
Learning,
MMAML 2014,**

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Course, Yaser S
Aloufi, Mostafa
**Computational
Intelligence, CI
2014,
Engineering
Knowledge and
Semantic
Systems ,
IWEKSS 2014,
Innovations in
Intelligent
Computation and
Applications,
IICA 2014,
Modelling and**

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Ahmed Mostafa

**Optimization
Techniques in
Information
Systems,
Database
Systems and
Industrial
Systems, MOT
2014, Innovation
via Collective
Intelligences and
Globalization in
Business
Management,**

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Course, Yaser S
Abu Mo'af
**ICIGBM 2014,
Intelligent
Supply Chains,
ISC 2014, and
Human Motion:
Acquisition,
Processing,
Analysis,
Synthesis and
Visualization for
Massive
Datasets, HMMD
2014.**

This book

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Course Yaser S
Abu-Mostafa
**discusses the
impact of
advanced
information
technologies,
such as data
processing,
machine
learning, and
artificial
intelligence, on
organizational
decision-making
processes and**

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AbuMishra

practices. One of the book's central themes is the interplay between human reasoning and machine logic in the context of organizational functioning, specifically, the fairly common situations in which subjective

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Abu Mostafa

**beliefs are pitted
against objective
evidence giving
rise to conflict
rather than
enhancing the
quality of
organizational
sensemaking.
Aiming to not
only raise the
awareness of the
potential
challenges but**

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Course Yasar S
AbuMusa
**also to offer
solutions, the
book delineates
and discusses the
core
impediments to
effective human-
information
technology
interactions, and
outlines
strategies for
overcoming
those obstacles**

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Course Yaser S
Ali Mustafa

**on the way to
enhancing the
efficacy of
organizational
decision-making.
Tackles
inherently
technical aspects
of advanced
information
technologies and
cognitive
functioning;
Discusses what it**

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Course Yaser S
Abu Montafa

**means to earn
and now in the
age of data and
advanced
information
technologies
such as big data,
data analytics,
AI, and machine
learning;
Provides specific
recommendation
s for how to
effectively**

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Course Yaser S
Abu-Mostafa
**combine the
power of
information
technology with
human creative
thinking.**

**These
Transactions
publish research
in computer-
based methods of
computational
collective
intelligence**

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Course Yaser S
Ali-Mustafa

(CCI) and their applications in a wide range of fields such as the Semantic Web, social networks and multi-agent systems. TCCI strives to cover new methodological, theoretical and practical aspects of CCI

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Abul-Hotafa

**understood as
the form of
intelligence that
emerges from
the collaboration
and competition
of many
individuals
(artificial and/or
natural). The
application of
multiple
computational
intelligence**

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Abu Mostafa

**technologies
such as fuzzy
systems,
evolutionary
computation,
neural systems,
consensus
theory, etc., aims
to support
human and other
collective
intelligence and
to create new
forms of CCI in**

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Abu-Mostafa
**natural and/or
artificial
systems. This
fourth issue
contains a
collection of 6
articles selected
from high-quality
submissions. The
first paper of
Ireneusz
Czarnowski
entitled
"Distributed**

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Abul-Hstafa
**Learning with
Data Reduction"
consists of 120
pages and has a
monograph
character. The
second part
consists of five
regular papers
addressing
advances in the
foundations and
applications of
computational**

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**collective
intelligence.**

**This book
constitutes the
refereed
conference
proceedings of
the 17th IFIP WG
6.11 Conference
on e-Business, e-
Services and e-
Society, I3E 201,
held in Kuwait
City, Kuwait, in O**

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**ctober/November
2018. The 65
revised full
papers presented
were carefully
reviewed and
selected from 99
submissions.
Topics of interest
include, amongst
others, the
following: social
media;
information**

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systems;
marketing and
communications;
management and
operations;
public
administration;
economics,
sociology, and
psychology; e-
finance, e-
banking, and e-
accounting;
computer science

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**and computer
engineering; and
teaching and
learning.**

**Stel, je staat
terecht. Wie laat
je liever
beslissen over je
lot: een
foutgevoelige
want menselijke
rechter of een
algoritme zonder
enige empathie?**

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Al-Mozafar

Stel, je koopt een zelfrijdende auto.

Wil je dat die zo

veel mogelijk

levens redt bij

een botsing, of

dat hij de eigen

inzittenden

bevoordeelt?

Stel, een nieuwe

machine heeft je

medische

gegevens nodig

om

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Abu-Mostafa

**kankerpatiënten
te redden. Geef
je je privacy op
voor het
algemeen
belang?
Algoritmes
spelen een steeds
grotere rol in ons
leven. Op wat
voor manier
precies? En is
het wel
verstandig om**

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**belangrijke
beslissingen zo
klakkeloos aan
ze uit te**

besteden?

**Wiskundige
Hannah Fry gidst
ons langs de
dilemma's van
ons nieuwe,
geautomatiseerd
e bestaan.**

**Uncover hidden
patterns of data**

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and respond with
countermeasures

Security

professionals

need all the tools

at their disposal

to increase their

visibility in order

to prevent

security breaches

and attacks. This

careful guide

explores two of

the most

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**powerful data
analysis and
visualization.**

**You'll soon
understand how
to harness and
wield data, from
collection and
storage to
management and
analysis as well
as visualization
and presentation.
Using a hands-on**

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**approach with
real-world
examples, this
book shows you
howto gather
feedback,
measure the
effectiveness of
your
securitymethods,
and make better
decisions.
Everything in
this book will**

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Abu Mostafa
**have practical
application
for information
security
professionals.
Helps IT and
security
professionals
understand and
use data, so they
can thwart
attacks and
understand and v
isualize vulnerabi**

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**lities in their
networks**

**Includes more
than a dozen real-
world examples
and hands-
on exercises that
demonstrate how
to analyze
security data
and intelligence
and translate
that information
into**

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visualizationstha
Course Yaser S
Abu Mostafa
t make plain how
to prevent
attacks Covers
topics such as
how to acquire
and prepare
security data, use
simple statistical
methods to
detect malware,
predict
roguebehavior,
correlate

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**security events,
and more**

**Written by a
team of well-
known experts in
the field
of security and
data analysis
Lock down your
networks,
prevent hacks,
and thwart
malware
by improving**

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visibility into the
environment, all
through the
power of data and
Security Using
Data Analysis,
Visualization,
and Dashboards.

[Machine
Learning and
Deep Learning
Techniques in
Wireless and
Mobile](#)

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[Networking
Systems
A Practical
Implementation
Guide to
Predictive Data
Analytics Using
Python
Statistics
Ask, Measure,
Learn
Learning from
Data
Java Data](#)

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Science

Cookbook

Statistics:

Learning from

Data

Preliminary

Edition of

Statistics:

Learning from

Data (Book Only)

Towards the next

generation of

computational

engines in

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hydraulics and hydrology Innovation Through Information Systems Challenges and Opportunities in the Digital Era Learning from Data Streams in Evolving Environments

The two volume
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set, LNCS 10613
and 10614,
constitutes the
proceedings of
then 26th
International
Conference on
Artificial
Neural
Networks, ICANN
2017, held in
Alghero, Italy,
in September

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2017. The 128
full papers
included in
this volume
were carefully
reviewed and
selected from
270
submissions.
They were
organized in
topical
sections named:

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From Perception
to Action; From
Neurons to
Networks; Brain
Imaging;
Recurrent
Neural
Networks;
Neuromorphic
Hardware; Brain
Topology and
Dynamics;
Neural Networks

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Meet Natural
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Environmental
Sciences;
Convolutional
Neural
Networks; Games
and Strategy;
Representation
and
Classification;
Clustering;
Learning from

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Data Streams
and Time
Series; Image
Processing and
Medical
Applications;
Advances in
Machine
Learning. There
are 63 short
paper abstracts
that are
included in the

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back matter of
the volume.

STATISTICS:
LEARNING FROM
DATA, Second
Edition,
addresses
common problems
faced by
learners of
elementary
statistics with
an innovative

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approach. The authors have paid particular attention to areas learners often struggle with -- probability, hypothesis testing, and selecting an appropriate method of

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analysis.

Course Yaser S
Abu Mostafa

Probability coverage is based on current research on how students best learn the subject. A unique chapter that provides an informal introduction to

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the ideas of
statistical
inference helps
students to
develop a
framework for
choosing an
appropriate
method.

Supported by
learning
objectives,
real-data

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examples and
exercises, and
technology
notes, this
book helps
learners to
develop
conceptual
understanding,
mechanical
proficiency,
and the ability
to put

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knowledge into
practice. NEW
Course Yaser S
Abu Mostafa
for Fall 2020 -

Turn your
students into
statistical
thinkers with
the Statistical
Analysis and
Learning Tool
(SALT). SALT is
an easy-to-use
data analysis

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tool created
with the intro-
level student
in mind. It
contains
dynamic
graphics and
allows students
to manipulate
data sets in
order to
visualize
statistics and

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gain a deeper
conceptual
understanding

about the
meaning behind
data. SALT is
built by

Cengage, comes
integrated in
Cengage

WebAssign
Statistics
courses and

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available to
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use standalone.
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fundamental to
advanced Python
3 topics in six
steps, all
designed to
make you a
worthy
practitioner.

This updated
version's
approach is

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based on the
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“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

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concepts and
practical

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implementation

using suitable

Python 3

packages.

You'll start

with the

fundamentals of

Python 3

programming

language,

machine

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learning
history,
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evolution, and
the system
development
frameworks. Key
data
mining/analysis
concepts, such
as exploratory
analysis,
feature
dimension

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reduction,
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regressions,
time series

forecasting and
their efficient
implementation
in Scikit-learn
are covered as
well. You'll
also learn
commonly used
model
diagnostic and

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tuning
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techniques.

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These include
optimal
probability
cutoff point
for class
creation,
variance, bias,
bagging,
boosting,
ensemble
voting, grid

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search, random
search,
Bayesian
optimization,
and the noise
reduction
technique for
IoT data.

Finally, you'll
review advanced
text mining
techniques,
recommender

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systems, neural networks, deep learning, reinforcement learning techniques and their implementation. All the code presented in the book will be available in the form of

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iPython

notebooks to

enable you to

try out these

examples and

extend them to

your advantage.

What You'll

Learn

Understand

machine

learning

development and

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frameworks

Assess model

diagnosis and

tuning in

machine

learning

Examine text

mining, natural

language

processing

(NLP), and

recommender

systems Review

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reinforcement
learning and
CNN Who This

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Python
developers,
data engineers,
and machine
learning
engineers
looking to
expand their
knowledge or

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career into
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machine
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learning area.

This two-volume
set (CCIS 1005
and CCIS 1006)
constitutes the
refereed
proceedings of
the 4th
International
Conference on
Cognitive

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Signal
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Processing,
ICCSIP2018,
held in
Beijing, China,
in November and
December 2018.
The 96 revised
full papers
presented were
carefully
reviewed and

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selected from
169
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The papers are
organized in
topical
sections on
vision and
image;
algorithms;
robotics; human-
computer
interaction;

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deep learning;
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information
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processing and
automatic
driving.

You can measure
practically
anything in the
age of social
media, but if
you don't know
what you're
looking for,

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collecting
mountains of
data won't
yield a grain
of insight.

This non-
technical guide
shows you how
to extract
significant
business value
from big data
with Ask-

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Measure-Learn,

a system that

helps you ask

the right

questions,

measure the

right data, and

then learn from

the results.

Authors Lutz

Finger and

Soumitra Dutta

originally

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devised this system to help governments and NGOs sift through volumes of data. With this book, these two experts provide business managers and analysts with a high-level

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overview of the
Ask-Measure-
Learn system,
and demonstrate
specific ways
to apply social
media analytics
to marketing,
sales, public
relations, and
customer
management,
using examples

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and easily,
then keep
reading. Data
Science and
Machine
Learning are
one of the
biggest

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buzzwords in
the business
world nowadays.
Many businesses
know the
importance of
collecting
information,
but as they can
collect so much
data in a short
period, the
real question

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is: "what is
the next step?"

Data Science
includes all
the different
steps that you
take with the
data:

collecting and
cleaning them,
analyzing them,
applying
Machine

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Learning algorithms and models, and then presenting your findings from the analysis with some good Data Visualizations. Machines and automation represent a huge part of

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our daily life.

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They are becoming part

of our

experience, and

existence.

Artificial

Intelligence is

currently one

of the most

thriving fields

any programmer

would wish to

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delve into, and
for a good
reason: this is
the future!

Simply put,
Machine

Learning is
about teaching
machines to
think and make
decisions as we
would. The
difference

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between the way
machines learn
and the way we
do is that
while for the
most part we
learn from
experiences,
machines learn
from data. In
book one,
PYTHON MACHINE
LEARNING, you

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will learn:

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What is Machine
Learning and

how it is

applied in real-
world

situations

Understanding
the differences
between Machine
Learning, Deep
Learning, and
Artificial

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learning

training
models,
Regression
techniques and
Linear
Regression in
Python How to
use Lists and
Modules in
Python The 12

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libraries for
Abu Mostafa
Machine

Learning in
Python
Artificial
Neural Networks
And Much More!

In book two,
PYTHON DATA
SCIENCE, you
will learn:
What Data

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Science is all
about and why
so many

companies are
using it to
give them a
competitive
edge. Why
Python and how
to use it to
implement Data
Science The
main Data

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Mining
techniques in
Data Science
And So Much
More! Where
most books only

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focus on how
collecting and
cleaning the
data, this book
goes further,
providing
guidance on how
to perform a
proper analysis
in order to
extract
precious
information

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that may be
vital for a
business. Don't
miss the
opportunity to
master the key
points of
Machine
Learning
technology and
understand how
researchers are
breaking the

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boundaries of
Data Science to
mimic human
intelligence in
machines. Even
if some Machine
Learning
concepts and
algorithms can
appear complex
to most
computer
programming

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beginners, this book takes the time to explain them in a simple and concise way. Understanding Machine Learning and Data Science is easier than it looks. You just need the right

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guidance. And
this bundle
Abu Mostafa
provides all
the knowledge
you need in a
simple and
practical way.
Regardless of
your previous
experience, you
will learn the
techniques to
manipulate and

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process

datasets, the

principles of

Python

programming,

and its most

important real-

world

applications.

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help students
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psychological
data that
affect their

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lives. To facilitate learning the authors devote extra attention to explaining the difficult concepts, use repetition to enhance memory and illustrate concepts with numerous

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examples. A six-step procedure helps students apply all statistical tests, from simple to complex. The authors emphasize how to choose the best statistical

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procedure in
the text, the
examples and
the problems.
Intended for
undergraduate
or graduate
statistics
courses in
psychology,
education, and
other applied
social and

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Utility-Based
Learning from
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17th IFIP WG
6.11 Conference
on e-Business,
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2018, Kuwait
City, Kuwait,
October 30 -

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Proceedings

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Research

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Systems

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Analysis,
Visualization
and Dashboards
Model Induction
from Data
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The Quick Guide
Series: 2nd
Edition

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4th
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Beijing, China,
November 29 -
December 1,
2018, Revised
Selected Papers

This book offers a
timely snapshot and
extensive practical
and theoretical

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insights into the
topic of learning

from data. Based on

the tutorials

presented at the

INNS Big Data and

Deep Learning

Conference,

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held on April 16-18,

2019, in Sestri

Levante, Italy, the

respective chapters

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cover advanced

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neural networks,

deep architectures,

and supervised and

reinforcement

machine learning

models. They

describe important

theoretical

concepts,

presenting in detail

all the necessary

mathematical

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formalizations, and offer essential guidance on their use in current big data research.

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challenges and
prospects. It
provides a broad
spectrum in
understanding the
improvements in
Machine Learning
and Deep Learning
that are motivating
by the specific
constraints posed

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Communication

systems and its

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technologies,

research

challenges,

solutions, and case

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were carefully

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topics range from

theoretical topics for

classification,

clustering,

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association rule and pattern mining to specific data mining methods for the different multi-media data types such as image mining, text mining, video mining, and Web mining.

There has been an explosive growth of methods in recent

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years for learning

(or estimating

dependency) from

data, where data

refers to known

samples that are

combinations of

inputs and

corresponding

outputs of a given

physical system.

The main subject

addressed in this

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thesis is model
induction from data
for the simulation of
hydrodynamic
processes in the
aquatic
environment. Firstly,
some currently
popular artificial
neural network
architectures are
introduced, and it is
then argued that

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these devices can be regarded as domain knowledge incapsulators by applying the method to the generation of wave equations from hydraulic data and showing how the equations of numerical-hydraulic models can, in their turn, be recaptured

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using artificial neural
networks. The book
also demonstrates
how artificial neural
networks can be
used to generate
numerical operators
on non-structured
grids for the
simulation of
hydrodynamic
processes in two-
dimensional flow

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systems and a
methodology has

been derived for

developing generic

hydrodynamic

models using

artificial neural

network. The book

also highlights one

other model

induction technique,

namely that of

support vector

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machine, as an

emerging new

method with a

potential to provide
more robust models.

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resolves common

problems faced by

both students and

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instructors with an innovative approach to elementary

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students struggle

with

most--probability,

hypothesis testing,

and selecting an

appropriate method

of analysis--unlike

any text on the

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market. Probability coverage is based on current research that shows how students best learn the subject. Two unique chapters, one on statistical inference and another on learning from experiment data, address two common areas of

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student confusion:
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choosing a
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particular inference

method and using

inference methods

with experimental

data. Supported by

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real-data examples

and exercises, and

technology notes,

this brand new text

guides students in

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“We finally have the definitive treatise on PyTorch! It covers the basics and abstractions in great detail. I hope this book becomes your extended reference document.”

—Soumith Chintala,
co-creator of
PyTorch Key

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Features Written by
PyTorch's creator

and key contributors
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Develop deep

learning models in a

familiar Pythonic

way Use PyTorch to

build an image

classifier for cancer

detection Diagnose

problems with your

neural network and

improve training

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good use: improved medical imaging, accurate credit card fraud detection, long range weather forecasting, and more. PyTorch puts these superpowers in your hands.

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PyTorch simplifies
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deep learning
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building quick
models, and it
scales smoothly
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enterprise. Deep
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you to create deep

learning and neural

network systems

with PyTorch. This

practical book gets

you to work right

away building a

tumor image

classifier from

scratch. After

covering the basics,

you'll learn best

practices for the

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entire deep learning

pipeline, tackling

advanced projects

as your PyTorch

skills become more

sophisticated. All

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What You Will Learn

Understanding deep

learning data

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structures such as

tensors and neural

networks Best

practices for the

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API, loading data in

Python, and

visualizing results

Implementing

modules and loss

functions Utilizing

pretrained models

from PyTorch Hub

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Methods for training
networks with

limited inputs Sifting

through unreliable

results to diagnose

and fix problems in

your neural network

Improve your results

with augmented

data, better model

architecture, and

fine tuning This

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For Python programmers with an interest in machine learning. No experience with PyTorch or other deep learning frameworks is required. About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a

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software engineer,
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and the past 7 years

Abu Mostafa
as Chief Technical

Officer of a startup
making medical
device software.

Luca Antiga is co-
founder and CEO of
an AI engineering
company located in
Bergamo, Italy, and
a regular contributor
to PyTorch. Thomas

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Viehmann is a
Machine Learning
and PyTorch

speciality trainer
and consultant
based in Munich,
Germany and a
PyTorch core
developer. Table of
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data representation

using tensors 5 The

mechanics of

learning 6 Using a

neural network to fit

the data 7 Telling

birds from airplanes:

Learning from

images 8 Using

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convolutions to
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EARLY

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LUNG CANCER 9

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tumors 12 Improving
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and augmentation

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suspected nodules
14 End-to-end
nodule analysis, and
where to go next

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production

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process and

analysis data using

Python Key

Features a- The

book has theories
explained

elaborately along

with Python code

and corresponding

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output to support the theoretical explanations. The Python codes are provided with step-by-step comments to explain each instruction of the code. a- The book is quite well balanced with programs and illustrative real-case problems. a- The

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book not only deals with the background mathematics alone or only the programs but also beautifully correlates the background mathematics to the theory and then finally translating it into the programs.

a- A rich set of

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chapter-end

exercises are

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provided, consisting

of both short-answer

questions and long-

answer questions.

Description This

book introduces the

fundamental

concepts of Data

Science, which has

proved to be a

major game-

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changer in business
solving problems.

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Topics covered in
the book include
fundamentals of
Data Science, data
preprocessing, data
plotting and
visualization,
statistical data
analysis, machine
learning for data
analysis, time-series

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analysis, deep
learning for Data

Science, social

media analytics,

business analytics,

and Big Data

analytics. The

content of the book

describes the

fundamentals of

each of the Data

Science related

topics together with

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illustrative examples

as to how various

data analysis

techniques can be

implemented using

different tools and

libraries of Python

programming

language. Each

chapter contains

numerous examples

and illustrative

output to explain the

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important basic
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appropriate number

of questions is

presented at the

end of each chapter

for self-assessing

the conceptual

understanding. The

references

presented at the

end of every chapter

will help the readers

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to explore more on
a given topic. What

will you learn a-

Understand what
machine learning is
and how learning
can be incorporated
into a program. a-

Perform data
processing to make
it ready for visual
plot to understand
the pattern in data

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used to perform

analysis on big data

using python a-

Perform social

media analytics,

business analytics,

and data analytics

on any data of a

company or

organization. Who

this book is for The

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book is for readers
with basic

programming and
mathematical skills.

The book is for any
engineering
graduates that wish
to apply data
science in their
projects or wish to
build a career in this
direction. The book
can be read by

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anyone who has an
interest in data

analysis and would

like to explore more

out of interest or to

apply it to certain

real-life problems.

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Ten years ago Bill

Gale of AT&T Bell

Laboratories was

primary organizer of

the first Workshop on

Artificial Intelligence

and Statistics. In the

early days of the

Workshop series it

seemed clear that

researchers in AI and

statistics had common

interests, though with

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different emphases, goals, and vocabularies. In learning and model selection, for example, a historical goal of AI to build autonomous agents probably contributed to a focus on parameter-free learning systems, which relied little on an external analyst's assumptions about the

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data. This seemed at odds with statistical strategy, which stemmed from a view that model selection methods were tools to augment, not replace, the abilities of a human analyst. Thus, statisticians have traditionally spent considerably more time exploiting prior information of the

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environment to model data and exploratory data analysis methods tailored to their assumptions. In statistics, special emphasis is placed on model checking, making extensive use of residual analysis, because all models are 'wrong', but some are better than others. It is increasingly

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recognized that AI
researchers and/or AI

programs can exploit

the same kind of

statistical strategies to

good effect. Often AI

researchers and

statisticians

emphasized different

aspects of what in

retrospect we might

now regard as the

same overriding tasks.

Big Data: Principles

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captures the state-of-

the-art research on the

architectural aspects,

technologies, and

applications of Big

Data. The book

identifies potential

future directions and

technologies that

facilitate insight into

numerous scientific,

business, and

consumer applications.

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To help realize Big Data's full potential, the book addresses numerous challenges, offering the conceptual and technological solutions for tackling them. These challenges include life-cycle data management, large-scale storage, flexible processing infrastructure, data modeling, scalable

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sampling techniques,
and privacy and
ethical issues. Covers
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platforms supporting
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Addresses key
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