

Acces PDF A
Simple
Introduction To
Data Science

A Simple Introduction To Data Science

Since long
before computers
were even
thought of, data
has been
collected and

Access PDF A

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Data Science

organized by
diverse cultures
across the
world. Once
access to the
Internet became
a reality for
large swathes of
the world's
population, the
amount of data
generated each
day became huge,
and continues to

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grow exponentially. It includes all our uploaded documents, video, and photos, all our social media traffic, our online shopping, even the GPS data from our cars. "Big Data" represents a

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qualitative change, not simply a quantitative one. The term refers both to the new technologies involved, and to the way it can be used by business and government. Dawn E. Holmes uses a

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variety of case studies to explain how data is stored, analyzed, and exploited by a variety of bodies from big companies to organizations concerned with disease control. Big data is transforming the

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way businesses operate, and the way medical research can be carried out. At the same time, it raises important ethical issues; Holmes discusses cases such as the Snowden affair, data security, and

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domestic smart
devices which
can be hijacked
by hackers.

ABOUT THE

SERIES: The Very
Short

Introductions
series from
Oxford

University Press
contains
hundreds of
titles in almost

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every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to

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Introduction To

Data Science

make interesting
and challenging
topics highly
readable.

Written by
renowned data
science experts
Foster Provost
and Tom Fawcett,
Data Science for
Business
introduces the
fundamental
principles of

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Introduction To

Data Science

data science,
and walks you
through the
"data-analytic
thinking"
necessary for
extracting
useful knowledge
and business
value from the
data you
collect. This
guide also helps
you understand

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the many data-mining techniques in use today. Based on an MBA course Provost has taught at New York University over the past ten years, Data Science for Business provides examples of real-

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world business
problems to
illustrate these
principles.
You'll not only
learn how to
improve
communication
between business
stakeholders and
data scientists,
but also how
participate
intelligently in

Acces PDF A

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Introduction To
Data Science

your company's
data science
projects. You'll
also discover
how to think dat
a-analytically,
and fully
appreciate how
data science
methods can
support business
decision-making.
Understand how
data science

Acces PDF A

Simple

Introduction To

Data Science

fits in your
organization—and
how you can use
it for
competitive
advantage Treat
data as a
business asset
that requires
careful
investment if
you're to gain
real value

Approach

Acces PDF A

Simple

Introduction To

Data Science

business
problems data-
analytically,
using the data-
mining process
to gather good
data in the most
appropriate way
Learn general
concepts for
actually
extracting
knowledge from
data Apply data

Acces PDF A

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Introduction To

science principles when

interviewing

data science job

candidates

Machine learning

has become an

integral part of

many commercial

applications and

research

projects, but

this field is

not exclusive to

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large companies
with extensive
research teams.

If you use

Python, even as
a beginner, this
book will teach
you practical
ways to build
your own machine
learning
solutions. With
all the data
available today,

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machine learning applications are limited only by your imagination.

You'll learn the steps necessary to create a successful machine-learning application with Python and the scikit-learn library. Authors

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Introduction To
Data Science
Andreas Müller
and Sarah Guido

focus on the
practical
aspects of using
machine learning
algorithms,
rather than the
math behind
them.

Familiarity with
the NumPy and
matplotlib
libraries will

Acces PDF A

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Introduction To
Data Science

help you get
even more from
this book. With
this book,
you'll learn:
Fundamental
concepts and
applications of
machine learning
Advantages and
shortcomings of
widely used
machine learning
algorithms How

Acces PDF A

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Data Science

to represent
data processed
by machine
learning,
including which
data aspects to
focus on
Advanced methods
for model
evaluation and
parameter tuning
The concept of
pipelines for
chaining models

Acces PDF A
Simple
Introduction To
and
Data Science

encapsulating
your workflow
Methods for
working with
text data,
including text-
specific
processing
techniques
Suggestions for
improving your
machine learning
and data science

Access PDF A Simple Introduction To skills Data Science

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

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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

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Data Science

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

Acces PDF A Simple Introduction To Data Science

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

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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

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Simple

Introduction To

storage and
manipulation of

dense data

arrays in Python

Pandas: features

the DataFrame

for efficient

storage and

manipulation of

labeled/columnar

data in Python

Matplotlib:

includes

capabilities for

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Introduction To

Data Science

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

A ModernDive

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Introduction To
Data Science
Into R and the
Tidyverse

Everything You
Need to Know
About AI, Big
Data and Data
Science

(Introduction to
Data, Data
Visualization,
Business
Intelligence and
Machine
Learning)

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Introduction To

Data Science

What You Need to
Know about Data
Mining and Data-
Analytic
Thinking

with

Applications in
R

Data Science for
Business

R for Data
Science

***If you are
convinced that***

Page 31/235

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***the world today
is producing
more data than
the previous
decades, then
you understand
that processing
yesterday's data
for today's use
at times is not
enough. The
level of data
analysis that is
needed in highly***

Acces PDF A
Simple
Introduction To
Data Science

***competitive
business
environment
needs to be
processed,
analyzed and
used immediately
for businesses
to be ahead of
their
competition.
Having this in
mind, you need
to understand***

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Introduction To
Data Science

from the ground up, what data is, the different types of data and how you should identify the right data for your business. To help you understand the simple basics of data and how it needs to be

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*Introduction To
Data Analytics
for Beginners is
the book that
you have been
waiting for. The
size and type of
business you are
running doesn't
matter because
after all, it
will depend on
your ability to
understand the*

Acces PDF A
Simple

*data that your
business is*

*exposed to so as
to make better
business*

*decisions for
the current
working*

*environment and
the future. Are*

*there patterns
in your business
that you cannot
see? Do you want*

Acces PDF A

Simple

Introduction To

Data Science

*to make sense of
the shopping
trends of your
clients to
better enrich
their
experience? Do
you want to know
your target
market even
more? Do you
want to better
derive insights
from the*

feedback your clients give you? These questions can only be answered when you perform a data analysis for your business.

Collecting the data is one thing, analyzing them is another matter entirely

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Introduction To Data Science

as it is not something that can be done haphazardly by just looking at the data. If you hope to understand your data well, you need to understand the data you are collecting, the methods to use

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and the right tools to use when analyzing the data. Inside you will find valuable steps and tools that will help make your information work for you. Do not let yourself get complacent, stop looking at the data that

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Data Science

***you collect each
day and start
analyzing your
data to move
your business
up. Get started
by buying this
book today!***

***Inside you will
find How data
should be
understood?***

***Terms and
concepts used in***

Acces PDF A

Simple

Introduction To
data analysis.

*Data mining and
the different
kinds of*

*databases used
to store data.*

*How information
can be retrieved
and manipulated
in the database
to create a
visual*

*representation
of what you want*

Acces PDF A
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Introduction To
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**to know? The
life cycle of
data analysis.
And more...
This 20-hour
free course
explored the
difference
between data and
information and
examined how a
computer-based
society impacts
on daily life.**

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Introduction To
Data Science

***A Simple
Introduction to
Data and
Activity
Analysis
provides an
introduction to
the main
concepts
embodied in the
analysis
techniques. This
book provides a
more balanced***

Acces PDF A
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*Introduction To
Data Science*
**picture of the
methods of the
analysis by
showing what
deliverables are
collected as
well as how to
obtain them.
Organized into
eight chapters,
this book begins
with an overview
of some of the
activities that**

Acces PDF A

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Introduction To

Data Science

*need to be done
to analyze the
business and
some of the end
and intermediate
deliverables
produced by
these
activities. This
text then
explains how to
get the activity
analysis
deliverables.*

Other chapters consider the causes and effects of problems in business. This book discusses as well how activities can be decomposed or broken down into more and more detailed activities,

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using the techniques of activity decomposition and data flow diagramming. The final chapter deals with the methods of analysis that show how different types of input could be converted

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***into the data
and activity
models. This
book is a
valuable
resource for
computer
programmers.
Providing key
information on
how to work with
research data,
Introduction to
Data***

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Technologies presents ideas and techniques for performing critical, behind-the-scenes tasks that take up so much time and effort yet typically receive little attention in formal education. With

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a focus on computational tools, the book shows readers how to improve their awareness of what tasks can be achieved and describes the correct approach to perform these tasks. Practical examples

demonstrate the most important points The author first discusses how to write computer code using HTML as a concrete example. He then covers a variety of data storage topics, including different file

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*formats, XML,
and the
structure and
design issues of
relational
databases. After
illustrating how
to extract data
from a
relational
database using
SQL, the book
presents tools
and techniques*

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Introduction To
Data Science

**for searching,
sorting,
tabulating, and
manipulating
data. It also
introduces some
very basic
programming
concepts as well
as the R
language for
statistical
computing. Each
of these topics**

Acces PDF A
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*has supporting
chapters that
offer reference
material on
HTML, CSS, XML,
DTD, SQL, R, and
regular
expressions. One-
stop shop of
introductory
computing
information
Written by a
member of the R*

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Introduction To

**Development Core
Team, this**

**resource shows
readers how to
apply data
technologies to
tasks within a
research
setting.**

**Collecting
material
otherwise
scattered across
many books and**

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the web, it explores how to publish information via the web, how to access information stored in different formats, and how to write small programs to automate simple, repetitive

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Simple
Introduction To
tasks.

**Statistics in
the Large
Introduction to
Data
Visualization
and Storytelling
Introduction to
Data Analysis
and Graphical
Presentation in
Biostatistics
with R
Fundamental**

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Introduction To
Data Science

***Concepts and
Procedures of
Data Analysis
An Introduction
to Statistical
Learning Methods
with R***

***A Practical
Introduction***

*This book focuses
exclusively on the
data types of*

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programming languages. It surveys the use of data types and examines in depth many of the issues related to them. Data types are explored by considering the wide variety of viewpoints used in

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many different programming languages including Ada, ALGOL 68, C, ML, Pascal, and PL/I. This book can be used as a text or a reference, and knowledge of programming languages is

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assumed.

*Author Scott
Murray teaches
you the
fundamental
concepts and
methods of D3, a
JavaScript library
that lets you
express data
visually in a web
browser.*

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Introduction To
Data Science

An introductory textbook offering a low barrier entry to data science; the hands-on approach will appeal to students from a range of disciplines.

A guide to the principles and methods of data

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Introduction To

Data Science

*analysis that does
not require*

*knowledge of
statistics or*

programming A

General

Introduction to

Data Analytics is

an essential guide

to understand and

use data analytics.

This book is

Acces PDF A Simple

*Introduction To
Data Science*
written using easy-
to-understand
terms and does
not require
familiarity with
statistics or
programming. The
authors—*noted
experts in the
field—highlight an
explanation of the
intuition behind*

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Simple

Introduction To
Data Science

the basic data analytics techniques. The text also contains exercises and illustrative examples. Thought to be easily accessible to non-experts, the book provides motivation to the

Access PDF A Simple

Introduction To Data Science

necessity of analyzing data. It explains how to visualize and summarize data, and how to find natural groups and frequent patterns in a dataset. The book also explores predictive tasks,

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Introduction To
Data Science

*be them
classification or
regression.*

*Finally, the book
discusses popular
data analytic
applications, like
mining the web,
information
retrieval, social
network analysis,
working with text,*

Acces PDF A
Simple

Introduction To
Data Science
and recommender
systems. The
learning resources
offer: A guide to
the reasoning
behind data
mining techniques
A unique
illustrative
example that
extends
throughout all the

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*chapters Exercises
at the end of each
chapter and larger
projects at the
end of each of the
text's two main
parts Together
with these
learning
resources, the
book can be used
in a 13-week*

Acces PDF A

Simple

Introduction To

Data Science

*course guide, one
chapter per*

course topic. The

book was written

in a format that

allows the

understanding of

the main data

analytics concepts

by non-

mathematicians,

non-statisticians

Acces PDF A

Simple

Introduction To
Data Science
and non-computer
scientists

interested in

getting an

introduction to

data science. A

General

Introduction to

Data Analytics is a

basic guide to

data analytics

written in highly

Access PDF A

Simple

Introduction To
Data Science
accessible terms.

Statistical

Inference Via Data

Science

Statistical

Computing

A Beginner's

Guide to Learn

and Master Data

Analytics

Essential Tools for

Working with Data

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Simple

Introduction To
Data Science

*Import, Tidy,
Transform,
Visualize, and
Model Data*
*An Introduction to
Data Science*
*Introduction to
Probability for
Data Science*
***Through real-
world datasets,
this book shows***

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Introduction To
Data Science
***the reader how to
work with
material in
biostatistics
using the open
source software
R. These include
tools that are
critical to dealing
with missing
data, which is a
pressing***

Acces PDF A
Simple

Introduction To
Data Science

***scientific issue
for those
engaged in
biostatistics.
Readers will be
equipped to run
analyses and
make graphical
presentations
based on the
sample dataset
and their own***

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data. The hands-on approach will benefit students and ensure the accessibility of this book for readers with a basic understanding of R. Topics include: an introduction to

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***Biostatistics and
R, data
exploration,
descriptive
statistics and
measures of
central tendency,
t-Test for
independent
samples, t-Test
for matched
pairs, ANOVA,***

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*Introduction To
Data Science*
**correlation and
linear regression,
and advice for
future work.**

***An Introduction
to Data Science
by Jeffrey S.
Saltz and Jeffrey
M. Stanton is an
easy-to-read,
gentle
introduction for***

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Introduction To

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people with a wide range of backgrounds into the world of data science. Needing no prior coding experience or a deep understanding of statistics, this book uses the R programming

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Introduction To

Data Science

**language and
RStudio®**

**platform to make
data science**

welcoming and

accessible for all

learners. After

introducing the

basics of data

science, the book

builds on each

previous concept

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Introduction To

Data Science

to explain R programming from the ground up. Readers will learn essential skills in data science through demonstrations of how to use data to construct models, predict outcomes, and

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Introduction To
Data Science

visualize data.

***An introduction
to data***

***visualization and
data storytelling.***

***This book
explains***

***(visually) the
fundamental***

principles of a

meaningful chart

making at high

Acces PDF A
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*level. No coding
or statistics skills
required.*

*Audience: data
visualization
students, senior
data scientists,
prescriptive
analytics
consultants.*

*Written by a
design thinking*

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Introduction To
Data Science

***professor and
multiple-times
awarded kaggle
master, this book
hits the sweet
spot between
abstraction and
detail.***

***This book
reflects the
author's years of
hands-on***

Acces PDF A
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*Introduction To
Data Science*
**experience as an
academic and
practitioner. It is
primarily
intended for
executives,
managers and
practitioners who
want to redefine
the way they
think about
artificial**

Acces PDF A
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Introduction To
Data Science
**intelligence (AI)
and other**

**exponential
technologies.**

**Accordingly the
book, which is
structured as a
collection of
largely self-
contained
articles, includes
both general**

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strategic reflections and detailed sector-specific information. More concretely, it shares insights into what it means to work with AI and how to do it more efficiently; what it

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*Introduction To
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**means to hire a
data scientist and
what new roles
there are in the
field; how to use
AI in specific
industries such
as finance or
insurance; how
AI interacts with
other
technologies**

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**such as
blockchain; and,
in closing, a
review of the use
of AI in venture
capital, as well as
a snapshot of
acceleration
programs for AI
companies.**

**A Guide for Data
Scientists**

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*An Introduction To
Data Science
to Data*

*Data Analysis
and Prediction
Algorithms with
R*

*Introduction to
Data Mining and
its Applications
A Guide for the
Data Scientist
Straight Talk*

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Introduction To
***from the
Frontline***
Data Science

Book Two

A guide for data managers and analyzers shares guidelines for identifying patterns, predicting future outcomes, and presenting

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findings to others;
drawing on
current research in
cognitive science
and learning
theory while
covering such
additional topics
as assessing data
quality, handling
ambiguous
information, and

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organizing data
within market
groups. Original.
Data structures
and algorithms
are presented at
the college level in
a highly accessible
format that
presents material
with one-page
displays in a way

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that will appeal to both teachers and students. The thirteen chapters cover: Models of Computation, Lists, Induction and Recursion, Trees, Algorithm Design, Hashing, Heaps, Balanced Trees, Sets Over a

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Data Science

Small Universe,
Graphs, Strings,
Discrete Fourier
Transform, Parallel
Computation. Key
features:

Complicated
concepts are
expressed clearly
in a single page
with minimal
notation and

Acces PDF A
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Data Science

without the
"clutter" of the
syntax of a
particular
programming
language;
algorithms are
presented with
self-explanatory
"pseudo-code." *
Chapters 1-4 focus
on elementary

Access PDF A Simple Introduction To Data Science

concepts, the
exposition

unfolding at a
slower pace.

Sample exercises
with solutions are
provided. Sections
that may be
skipped for an
introductory
course are starred.

Requires only

Acces PDF A
Simple

Introduction To
Data Science

some basic
mathematics
background and
some computer
programming
experience. *

Chapters 5-13
progress at a
faster pace. The
material is
suitable for
undergraduates or

Acces PDF A
Simple
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Data Science

first-year
graduates who
need only review
Chapters 1 -4. *
This book may be
used for a one-
semester
introductory
course (based on
Chapters 1-4 and
portions of the
chapters on

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Data Science

algorithm design,
hashing, and
graph algorithms)
and for a one-
semester
advanced course
that starts at
Chapter 5. A year-
long course may
be based on the
entire book. *

Sorting, often

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perceived as rather technical, is not treated as a separate chapter, but is used in many examples (including bubble sort, merge sort, tree sort, heap sort, quick sort, and several parallel

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algorithms). Also, lower bounds on sorting by comparisons are included with the presentation of heaps in the context of lower bounds for comparison-based structures. *

Chapter 13 on

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Data Science

parallel models of
computation is
something of a
mini-book itself,
and a good way to
end a course.

Although it is not
clear what parallel
"Statistical

Inference via Data
Science: A

ModernDive into R

Acces PDF A

Simple

Introduction To

and the Tidyverse

Data Science

provides a

pathway for

learning about

statistical

inference using

data science tools

widely used in

industry,

academia, and

government. It

introduces the

Access PDF A Simple

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Data Science

tidyverse suite of
R packages,

including the
ggplot2 package
for data

visualization, and
the dplyr package
for data

wrangling. After
equipping readers
with just enough
of these data

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Introduction To

Data Science

science tools to perform effective exploratory data analyses, the book covers traditional introductory statistics topics like confidence intervals, hypothesis testing, and multiple

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regression

Data Science

modeling, while

focusing on

visualization

throughout"--

Data Mining and

Analytics provides

a broad and

interactive

overview of a

rapidly growing

field. The

Acces PDF A

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exponentially
Data Science
increasing rate at

which data is
generated creates
a corresponding
need for
professionals who
can effectively
handle its storage,
analysis, and
translation.

Doing Data

Acces PDF A

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Introduction To

Science

Data Science

An introduction to
data and
information

Data Analytics for
Absolute

Beginners: a

Deconstructed

Guide to Data

Literacy

Introduction to

Data Technologies

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Simple

Introduction To
Data Science

An Introduction to
Data and Activity
Analysis

Introduction to
Data Science

Big Data: a Very
Short Introduction
While exposure
to data has

become more or
less a daily ritual
for the rank-and-

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Introduction To

Data Science

file knowledge
worker, true und
erstanding-
treated in this
book as data
literacy-resides
in knowing what
lies behind the
data. Everything
from the data's
source to the
specific choice of

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Simple

Introduction To

input variables,
Data Science
algorithmic

transformations,

and visual

representation

shape the

accuracy,

relevance, and

value of the data

and mark its

journey from

raw data to

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business insight.

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It's also

important to

grasp the

terminology and

basic concepts of

data analytics as

much as it is to

have the

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to be successful

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the business

world. In this

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sense of data

analytics without

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languages to set
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path. Topics
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tools have a direct impact on the success of his or her work. This book will provide the data scientist with the tools and techniques required to excel with statistical learning methods

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in the areas of
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data access, data

munging,

exploratory data

analysis,

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learning,

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machine learning

and model

evaluation.

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Machine learning and data science are large disciplines, requiring years of study in order to gain proficiency. This book can be viewed as a set of essential tools we need for a

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long-term career
in the data
science field –
recommendation
s are provided
for further study
in order to build
advanced skills
in tackling
important data
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statistical environment was chosen for use in this book. R is a growing phenomenon worldwide, with many data scientists using it exclusively for their project work. All of the

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code examples
for the book are
written in R. In
addition, many
popular R
packages and
data sets will be
used.

This accessible
and classroom-
tested textbook/r
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introduction to
the fundamentals
of the emerging
and
interdisciplinary
field of data
science. The
coverage spans
key concepts
adopted from
statistics and

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machine

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learning, useful

techniques for

graph analysis

and parallel

programming,

and the practical

application of

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such tasks as

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recommender

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systems or performing sentiment analysis. Topics and features: provides numerous practical case studies using real-world data throughout the book; supports

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through hands-

on experience of

solving data

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using Python;

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techniques and

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statistical

analysis,

machine

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analysis, and

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reviews a range

of applications of

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while others fail,

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using powerful
and reproducible
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how to think
about data
visualization in
an honest and
effective way.

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expertise in
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versatile
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library for the R
programming
language.
Through a series
of worked

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examples, this accessible primer then demonstrates how to create plots piece by piece, beginning with summaries of single variables and moving on to more complex

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graphics. Topics include plotting continuous and categorical variables; layering information on graphics; producing effective “small multiple” plots; grouping,

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creating maps;

working with the

output of

statistical

models; and

refining plots to

make them more

comprehensible.

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research

findings.

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using R and

ggplot2 Shows

how the

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easier and more

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Includes a

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sets, code, and

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teaches
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data
structures.

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provides an
introduction to
the
mathematical
and algorithmic
foundations of
data science,

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linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for

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machine
learning,
algorithms and
analysis for
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large networks,
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Important
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and graduate courses in the design and analysis of algorithms for data.

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more. Color

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used to
illustrate the
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Since the goal
of this
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statistical

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learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R,

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an extremely popular open source statistical software platform. Two of the authors co-wrote The Elements of Statistical Learning (Hastie, Tibshirani and

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Friedman, 2nd
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and machine
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many of the
same topics,

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introduced in

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the same time
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will evolve in
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data in
graphical
format. In this
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will learn how
to present data
graphically
with Python,

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understand the
need for data
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visualization,
including
basic,
specialized and
advanced tools.
To help you
make the right
decision in
choosing the
tool and the
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power of Python
in data
visualization.
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with data
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skills in
Python
programming

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language. To help you learn the various Python libraries that you can use for data visualization. Who this Book is for? The author targets the following groups of

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people: Anyone who needs to know the need for data visualization in an organization. Any individual who needs to know the various tools they can use for data

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visualization.

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data
visualization
in Python using
various
libraries such
as Pandas,
Matplotlib,
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Folium. Anyone
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learn how to
visualize
different types

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textual,
numerical and
geospatial
data.

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you to have a
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installed with
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VISUALIZATION

BASIC AND

SPECIALIZED

DATA

VISUALIZATION

TOOLS ADVANCED

VISUALIZATIONS

TOOLSEXPLORING

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VISUALIZATION
WITH PANDAS
DATA
VISUALIZATION
WITH SEABORN
CREATING MAPS
AND VISUALIZING
GEOSPATIAL DATA

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basic,
specialized and
advanced ones.
Practically,
the author
focuses on how
to visualize
data in the
Python
programming
language. The
process of
plotting

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different types of data using different types of plots has been discussed. You will learn how to plot textual, numerical and geospatial data in Python using different libraries such

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Seaborn and
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codes have been
provided
alongside
images of the
expected
outputs and the
corresponding
code
descriptions.

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This textbook offers an easy-to-follow, practical guide to modern data analysis using the programming language R. The chapters cover topics such as the fundamentals of programming in

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scraping, data
visualization,
and statistical
methods,
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multivariate
analysis, and
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exercises at

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the end of each section. The text requires only basic statistics skills, as it strikes a balance between statistical and mathematical understanding and implementation

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will be equally
valuable for
master students
of data science
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transforming it
to provide
context is the
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between having
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analytics and
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can build as their

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shows readers
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conduct a variety
of commonly
used statistical
procedures, but
also when each
procedure should
be utilized and
how they are
related.**

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descriptive statistics, he begins his discussion of inferential statistics with a two-chapter examination of the Chi Square test to introduce students to hypothesis testing, the importance of

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**determining
effect size, and
the need for post
hoc tests. When
more complex
procedures
related to
interval/ratio
data are covered,
students already
have a solid
understanding of
the foundational
concepts**

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**involved.
Exploring
challenging
topics in an
engaging and
easy-to-follow
manner, Reid
builds concepts
logically and
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learning through
robust
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tools, the use of**

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examples,
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quotations,
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checks.**

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R to turn raw
data into insight,
knowledge, and
understanding.
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data and
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the results.
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understanding of
the data science
cycle, along with
basic tools you
need to manage
the details. Each
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with exercises to
help you practice
what you've
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how to: Wrangle
—transform your
datasets into a
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Program—learn
powerful R tools
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and ease**

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**Model—provide a
low-dimensional
summary that**

**captures true
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R introduces
concepts and
skills that can
help you tackle**

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**real-world data
analysis**

**challenges. It
covers concepts
from probability,
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inference, linear
regression, and
machine
learning. It also
helps you
develop skills
such as R
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**data wrangling,
data**

visualization,

predictive

algorithm

building, file

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UNIX/Linux shell,

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with Git and

GitHub, and

reproducible

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preparation. This

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**book is a
textbook for a
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data science. No
previous
knowledge of R is
necessary,
although some
experience with
programming
may be helpful.
The book is
divided into six
parts: R, data**

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data wrangling,
machine
learning, and
productivity
tools. Each part
has several
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to be presented
as one lecture.
The author uses
motivating case
studies that**

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**realistically
mimic a data
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starts by asking
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answers these
through data
analysis so
concepts are
learned as a
means to
answering the**

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understand fully
the methodology.**

*** Extensive
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statistical
methods * Uses S-
Plus, which is
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globally as one of
the most**

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statistical
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the field, who
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aware that data can
make the difference*

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know. In many of
these chapter-long
lectures, data
scientists from
companies such as
Google, Microsoft,
and eBay share new
algorithms, methods,
and models by
presenting case studies*

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Introduction To
and the code they use.

*If you're familiar
with linear algebra,
probability, and
statistics, and have
programming
experience, this book
is an ideal
introduction to data
science. Topics
include: Statistical
inference, exploratory
data analysis, and the*

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data science process
Algorithms Spam

filters, Naive Bayes,
and data wrangling

Logistic regression

Financial modeling

Recommendation

engines and causality

Data visualization

Social networks and

data journalism Data
engineering,

MapReduce, Pregel,

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*and Hadoop Doing
Data Science is*

*collaboration between
course instructor*

*Rachel Schutt, Senior
VP of Data Science at
News Corp, and data
science consultant*

*Cathy O'Neil, a senior
data scientist at*

*Johnson Research
Labs, who attended
and blogged about the*

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