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**Artificial Intelligence
(AI) in Healthcare is
more than a
comprehensive
introduction to
artificial intelligence
as a tool in the**

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generation and analysis
Dei Dati
of healthcare data. The
book is split into two
sections where the first
section describes the
current healthcare
challenges and the rise

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of AI in this arena. The
ten following chapters
are written by
specialists in each
area, covering the whole
healthcare ecosystem.
First, the AI

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applications in drug
design and drug
development are
presented followed by
its applications in the
field of cancer
diagnostics, treatment

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and medical imaging.

Subsequently, the application of AI in medical devices and surgery are covered as well as remote patient monitoring. Finally, the

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book dives into the
Dei Dati
topics of security,
privacy, information
sharing, health
insurances and legal
aspects of AI in
healthcare. Highlights

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**different data
techniques in healthcare
data analysis, including
machine learning and
data mining Illustrates
different applications
and challenges across**

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the design,

implementation and

management of

intelligent systems and

healthcare data networks

Includes applications

and case studies across

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all areas of AI in
healthcare data

The Art and Science of
Analyzing Software Data
provides valuable
information on analysis
techniques often used to

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Derive insight from
software data. This book
shares best practices in
the field generated by
leading data scientists,
collected from their
experience training

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**software engineering
students and
practitioners to master
data science. The book
covers topics such as
the analysis of security
data, code reviews, app**

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stores, log files, and user telemetry, among others. It covers a wide variety of techniques such as co-change analysis, text analysis, topic analysis, and

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concept analysis, as well as advanced topics such as release planning and generation of source code comments. It includes stories from the trenches from expert

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data scientists
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illustrating how to
apply data analysis in
industry and open
source, present results
to stakeholders, and
drive decisions.

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Presents best practices,
hints, and tips to
analyze data and apply
tools in data science
projects Presents
research methods and
case studies that have

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emerged over the past
few years to further
understanding of
software data Shares
stories from the
trenches of successful
data science initiatives

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in industry
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Data science has recently gained much attention for a number of reasons, and among them is Big Data. Scientists (from almost

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all disciplines
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including physics,
chemistry, biology,
sociology, among others)
and engineers (from all
fields including civil,
environmental, chemical,

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mechanical, among others) are faced with challenges posed by data volume, variety, and velocity, or Big Data. This book is designed to highlight the unique

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characteristics of
geospatial data,
demonstrate the need to
different approaches and
techniques for obtaining
new knowledge from raw
geospatial data, and

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present select state-of-
the-art geospatial data
science techniques and
how they are applied to
various geoscience
problems.

Un'analisi critica

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costruttiva delle varie
tematiche: dalla
normativa di settore,
anche europea, ai
modelli e procedure
d'appalto;
dall'ammodernamento

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della PA,
Dei Dati

all'accelerazione del
processo di
digitalizzazione e di
interscambio dei dati.
Ma la parte centrale
dell'opera è dedicata ai

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**giovani perché conoscano
la Scienza dei dati e le
grandi opportunità di
lavoro e di crescita che
offre; oltretutto, a
loro è affidata la
missione di mantenere e**

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**rafforzare il primato
italiano in un settore
determinante per lo
sviluppo della società
libera.**

Agile Analytics

Artificial Intelligence

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in Healthcare

Dei Dati
Impact on Healthcare
Systems and Technology
Current Trends and
Advances in Computer-
Aided Intelligent
Environmental Data

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Engineering

Lessons from COVID-19

Data Science for

COVID-19 Volume 1

How Leaders Set

Strategy, Change

Behavior, and Create an

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Agile Culture

Federal Data Science
serves as a guide for
federal software
engineers, government
analysts, economists,
researchers, data

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scientists, and engineering managers in deploying data analytics methods to governmental processes. Driven by open government (2009) and big data (2012) initiatives,

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federal agencies have a serious need to implement intelligent data management methods, share their data, and deploy advanced analytics to their processes. Using

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federal data for reactive
decision making is not
sufficient anymore,
intelligent data systems
allow for proactive
activities that lead to
benefits such as: improved

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citizen services, higher accountability, reduced delivery inefficiencies, lower costs, enhanced national insights, and better policy making. No other government-dedicated

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work has been found in literature that addresses this broad topic. This book provides multiple use-cases, describes federal data science benefits, and fills the gap in this

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critical and timely area.
Written and reviewed by
academics, industry
experts, and federal
analysts, the problems and
challenges of developing
data systems for

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government agencies is presented by actual developers, designers, and users of those systems, providing a unique and valuable real-world perspective. Offers a

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range of data science
models, engineering tools,
and federal use-cases
Provides foundational
observations into
government data resources
and requirements

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Introduces experiences and examples of data openness from the US and other countries A step-by-step guide for the conversion of government towards data-driven policy making

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Focuses on presenting data models that work within the constraints of the US government Presents the why, the what, and the how of injecting AI into federal culture and

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software systems

A practitioner's tools have a direct impact on the success of his or her work. This book will provide the data scientist with the tools and

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techniques required to excel with statistical learning methods in the areas of data access, data munging, exploratory data analysis, supervised machine learning,

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unsupervised machine
learning and model
evaluation. Machine
learning and data science
are large disciplines,
requiring years of study
in order to gain

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proficiency. This book can be viewed as a set of essential tools we need for a long-term career in the data science field - recommendations are provided for further study

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in order to build advanced skills in tackling important data problem domains. The R statistical environment was chosen for use in this book. R is a growing phenomenon

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worldwide, with many data scientists using it exclusively for their project work. All of the code examples for the book are written in R. In addition, many popular R

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packages and data sets
will be used.

Discover how graph
algorithms can help you
leverage the relationships
within your data to
develop more intelligent

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solutions and enhance your
machine learning models.

You'll learn how graph
analytics are uniquely
suited to unfold complex
structures and reveal
difficult-to-find patterns

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lurking in your data.

Whether you are trying to build dynamic network models or forecast real-world behavior, this book illustrates how graph algorithms deliver

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value—from finding
vulnerabilities and
bottlenecks to detecting
communities and improving
machine learning
predictions. This
practical book walks you

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through hands-on examples of how to use graph algorithms in Apache Spark and Neo4j—two of the most common choices for graph analytics. Also included: sample code and tips for

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over 20 practical graph algorithms that cover optimal pathfinding, importance through centrality, and community detection. Learn how graph analytics vary from

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conventional statistical
analysis Understand how
classic graph algorithms
work, and how they are
applied Get guidance on
which algorithms to use
for different types of

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questions Explore
algorithm examples with
working code and sample
datasets from Spark and
Neo4j See how connected
feature extraction can
increase machine learning

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accuracy and precision

Walk through creating an

ML workflow for link

prediction combining Neo4j

and Spark

Current Trends and

Advances in Computer-Aided

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Intelligent Environmental
Data Engineering merges
computer engineering and
environmental engineering.
The book presents the
latest finding on how data
science and AI-based tools

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are being applied in environmental engineering research. This application involves multiple domains such as data science and artificial intelligence to transform the data

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collected by intelligent sensors into relevant and reliable information to support decision-making. These tools include fuzzy logic, knowledge-based systems, particle swarm

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optimization, genetic
algorithms, Monte Carlo
simulation, artificial
neural networks, support
vector machine, boosted
regression tree, simulated
annealing, ant colony

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algorithm, decision tree, immune algorithm, and imperialist competitive algorithm. This book is a fundamental information source because it is the first book to present the

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foundational reference
material in this new
research field.

Furthermore, it gives a
critical overview of the
latest cross-domain
research findings and

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technological developments
on the recent advances in
computer-aided intelligent
environmental data
engineering. Captures the
application of data
science and artificial

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intelligence for a broader spectrum of environmental engineering problems
Presents methods and procedures as well as case studies where state-of-the-art technologies are

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applied in actual
environmental scenarios
Offers a compilation of
essential and critical
reviews on the application
of data science and
artificial intelligence to

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the entire spectrum of
environmental engineering
Florence the Data
Scientist and Her Magical
Bookmobile
Hands-On Transfer Learning
with Python

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Dei Dati
for Cybersecurity
Data Science
Data Science for COVID-19
Building the Data
Lakehouse
Data Management Body of

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Knowledge

Artificial Intelligence and Data
Science in Environmental
Sensing provides state-of-the-art
information on the inexpensive
mass-produced sensors that are
used as inputs to artificial
intelligence systems. The book

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dei Dati discusses the advances of AI and Machine Learning technologies in material design for environmental areas. It is an excellent resource for researchers and professionals who work in the field of data processing, artificial intelligence

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sensors and environmental applications. Presents tools, connections and proactive solutions to take sustainability programs to the next level Offers a practical guide for making students proficient in modern electronic data analysis and

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graphics Provides knowledge and background to develop specific platforms related to environmental sensing, including control water, air and soil quality, water and wastewater treatment, desalination, pollution mitigation/control, and resource

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management and recovery
Using Agile methods, you can bring far greater innovation, value, and quality to any data warehousing (DW), business intelligence (BI), or analytics project. However, conventional Agile methods must be carefully

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adapted to address the unique characteristics of DW/BI projects. In Agile Analytics, Agile pioneer Ken Collier shows how to do just that. Collier introduces platform-agnostic Agile solutions for integrating infrastructures consisting of diverse operational,

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legacy, and specialty systems that mix commercial and custom code. Using working examples, he shows how to manage analytics development teams with widely diverse skill sets and how to support enormous and fast-growing data volumes.

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Collier's techniques offer optimal value whether your projects involve "back-end" data management, "front-end" business analysis, or both. Part I focuses on Agile project management techniques and delivery team coordination,

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introducing core practices that shape the way your Agile DW/BI project community can collaborate toward success Part II presents technical methods for enabling continuous delivery of business value at production-quality levels, including evolving

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superior designs; test-driven DW
development; version control;
and project automation Collier
brings together proven solutions
you can apply right now--whether
you're an IT decision-maker, data
warehouse professional, database
administrator, business

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intelligence specialist, or database developer. With his help, you can mitigate project risk, improve business alignment, achieve better results--and have fun along the way.

A comprehensive guide to learning technologies that unlock

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the value in big data Cognitive Computing provides detailed guidance toward building a new class of systems that learn from experience and derive insights to unlock the value of big data. This book helpstechnologists understand cognitive

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computing's
underlying technologies, from
knowledge representation
techniques and natural language
processing algorithms to dynamic
learning approaches based on
accumulated evidence, rather
than reprogramming. Detailed

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caseexamples from the financial, healthcare, and manufacturing walkreaders step-by-step through the design and testing of cognitivesystems, and expert perspectives from organizations such asCleveland Clinic, Memorial Sloan-Kettering, as

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well as commercial vendors that are creating solutions. These organizations provide insight into the real-world implementation of cognitive computing systems. The IBM Watson cognitive computing platform is described in a detailed chapter because of its

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significance in helping to define this emerging market. In addition, the book includes implementations of emerging projects from Qualcomm, Hitachi, Google and Amazon. Today's cognitive computing solutions build on

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established concepts from
artificial intelligence, natural
language processing, ontologies,
and leverage advances in big
data management and analytics.
They foreshadow an intelligent
infrastructure that enables a new
generation of customer and

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context-aware smart applications
in all industries. Cognitive
Computing is a comprehensive
guide to the subject, providing
both the theoretical and practical
guidance that technologists need.
Discover how cognitive
computing evolved from promise

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to reality Learn the elements that
make up a cognitive
computing system Understand the
groundbreaking hardware and
software technologies behind
cognitive computing Learn to
evaluate your own application
portfolio to find the best

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candidates for pilot projects
Leverage cognitive computing
capabilities to transform
the organization Cognitive
systems are rightly being hailed
as the new era of computing.
Learn how these technologies
enable emerging firms to compete

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with entrenched giants, and forward-thinking established firms to disrupt their industries. Professionals who currently work with big data and analytics will see how cognitive computing builds on their foundation, and creates new

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opportunities.

Cognitive Computing provides complete guidance to this new level of human-machine interaction.

Lessons from COVID-19: Impact on Healthcare Systems and Technology uncovers the impact

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that COVID-19 has made on healthcare and technology industries. State-of-the-art case studies, empirical research, and new trends in technology-mediated solution are discussed to help inform and guide readers in understanding the effects that

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the COVID-19 outbreak has had across healthcare and technology industries. The book discusses challenges to identify vaccines, changes in legislation on clinical trials and re-purposing of licensed drugs, effects on primary healthcare, best

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practices adopted by different countries to control the pandemic, and different effects on patients within diverse age groups and comorbidities. In addition, the book covers technology-mediated solutions and infrastructures applied,

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digital transformations, modeling techniques, statistical projections, and the benefits and use of cloud computing and artificial intelligence. This is a valuable resource for healthcare professionals, medical doctors, researchers and graduate

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students from both biomedical and technological fields who are interested in learning more about the use of new technologies to fight a pandemic. Discusses the effects of COVID-19 on healthcare and technology
Presents case studies and state-

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of-the-art research and
technologies to help readers
effectively understand the effects
of COVID-19 Empowers
researchers to work on effective
hypothesis to test the disruptions
and changes that have occurred
as a result of COVID-19 Bridges

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practical and theoretical gaps in
terms of lessons learned during
COVID-19 in the healthcare and
technology sectors

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A Roadmap for Urban

Transformation

Perspectives on Data Science for

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The Era of Artificial Intelligence, Machine Learning, and Data Science in the Pharmaceutical

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Marketing

Implementing Data-Driven
Strategies in Smart Cities

Florence the Data Scientist and Her
Magical Bookmobile is a picture

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book for young readers that explores and explains one of today's most important and fastest-growing professions: data science! How can recording and analyzing data for patterns help make predictions about the future? Join Beatrice as she finds

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out. Beatrice loves four different things: reading, science, dragons, and swings! When a mysterious bookmobile drives down her street, the driver Florence knows exactly what books will delight all the kids in the neighborhood. But how?!

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Beatrice watches the scene throughout the day to record and analyze each of her friend's responses to Florence's same questions. Is Florence a psychic? Or is there a logical pattern at play? Can Beatrice ensure she answers to get

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the outcome she craves? Florence
the Data Scientist helps young
readers (and their parents!)
understand the amazing predictive
power of recording and analyzing
trends and data.

Defining a set of guiding principles

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for data management and describing how these principles can be applied within data management functional areas; Providing a functional framework for the implementation of enterprise data management practices; including widely adopted

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practices, methods and techniques, functions, roles, deliverables and metrics; Establishing a common vocabulary for data management concepts and serving as the basis for best practices for data management professionals. DAMA-DMBOK2

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provides data management and IT professionals, executives, knowledge workers, educators, and researchers with a framework to manage their data and mature their information infrastructure, based on these principles: Data is an asset with

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unique properties; The value of data can be and should be expressed in economic terms; Managing data means managing the quality of data; It takes metadata to manage data; It takes planning to manage data; Data management is cross-functional and

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requires a range of skills and expertise; Data management requires an enterprise perspective; Data management must account for a range of perspectives; Data management is data lifecycle management; Different types of data

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have different lifecycle requirements; Managing data includes managing risks associated with data; Data management requirements must drive information technology decisions; Effective data management requires leadership

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commitment.

Data Science for COVID-19
presents leading-edge research on
data science techniques for the
detection, mitigation, treatment and
elimination of COVID-19. Sections
provide an introduction to data

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science for COVID-19 research, considering past and future pandemics, as well as related Coronavirus variations. Other chapters cover a wide range of Data Science applications concerning COVID-19 research, including

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Image Analysis and Data Processing,
Geoprocessing and tracking,
Predictive Systems, Design
Cognition, mobile technology, and
telemedicine solutions. The book
then covers Artificial Intelligence-
based solutions, innovative treatment

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methods, and public safety. Finally, readers will learn about applications of Big Data and new data models for mitigation. Provides a leading-edge survey of Data Science techniques and methods for research, mitigation and treatment of the COVID-19

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virus Integrates various Data Science techniques to provide a resource for COVID-19 researchers and clinicians around the world, including both positive and negative research findings Provides insights into innovative data-oriented

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modeling and predictive techniques
Dei Dati
from COVID-19 researchers

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user experiences from physicians
and medical staff from around the
world on the effectiveness of applied
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The data lakehouse is the next generation of the data warehouse and data lake, designed to meet today's complex and ever-changing analytics, machine learning, and data science requirements. Learn about the features and architecture of the

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data lakehouse, along with its powerful analytical infrastructure.

Appreciate how the universal common connector blends structured, textual, analog, and IoT data. Maintain the lakehouse for future generations through Data

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Lakehouse Housekeeping and Data
Future-proofing. Know how to
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Incorporate data catalogs, data
lineage tools, and open source
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ensure your data scientists, analysts,
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Cognitive Computing and Big Data
Analytics

Artificial Intelligence with Python
A Step-by-Step Breakdown with
Data, Algorithms, Codes, and
Applications

Rise of the Data Cloud

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**Perspectives on Data Science
for Software Engineering**
presents the best practices of
seasoned data miners in
software engineering. The
idea for this book was created
during the 2014 conference at
Dagstuhl, an invitation-only

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gathering of leading computer scientists who meet to identify and discuss cutting-edge informatics topics. At the 2014 conference, the concept of how to transfer the knowledge of experts from seasoned software engineers

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and data scientists to newcomers in the field highlighted many discussions. While there are many books covering data mining and software engineering basics, they present only the fundamentals and lack the

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**perspective that comes from
real-world experience. This
book offers unique insights
into the wisdom of the
community's leaders gathered
to share hard-won lessons
from the trenches. Ideas are
presented in digestible**

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chapters designed to be applicable across many domains. Topics included cover data collection, data sharing, data mining, and how to utilize these techniques in successful software projects. Newcomers to software

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**engineering data science will
learn the tips and tricks of the
trade, while more experienced
data scientists will benefit
from war stories that show
what traps to avoid. Presents
the wisdom of community
experts, derived from a**

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summit on software analytics
Provides contributed chapters
that share discrete ideas and
technique from the trenches
Covers top areas of concern,
including mining security and
social data, data visualization,
and cloud-based data

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**Presented in clear chapters
designed to be applicable
across many domains
Machine Learning and Data
Science in the Oil and Gas
Industry explains how
machine learning can be
specifically tailored to oil and**

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gas use cases. Petroleum engineers will learn when to use machine learning, how it is already used in oil and gas operations, and how to manage the data stream moving forward. Practical in its approach, the book

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explains all aspects of a data science or machine learning project, including the managerial parts of it that are so often the cause for failure. Several real-life case studies round out the book with topics such as predictive

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**maintenance, soft sensing,
and forecasting. Viewed as a
guide book, this manual will
lead a practitioner through
the journey of a data science
project in the oil and gas
industry circumventing the
pitfalls and articulating the**

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**business value. Chart an
overview of the techniques
and tools of machine learning
including all the non-
technological aspects
necessary to be successful
Gain practical understanding
of machine learning used in**

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**oil and gas operations
through contributed case
studies Learn change
management skills that will
help gain confidence in
pursuing the technology
Understand the workflow of a
full-scale project and where**

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**machine learning benefits
(and where it does not)**

**Deep learning simplified by
taking supervised,
unsupervised, and
reinforcement learning to the
next level using the Python
ecosystem Key Features Build**

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**deep learning models with
transfer learning principles in
Python implement transfer
learning to solve real-world
research problems Perform
complex operations such as
image captioning neural style
transfer** **Book Description**

Transfer learning is a machine learning (ML) technique where knowledge gained during training a set of problems can be used to solve other similar problems. The purpose of this book is two-fold; firstly, we focus on

detailed coverage of deep learning (DL) and transfer learning, comparing and contrasting the two with easy-to-follow concepts and examples. The second area of focus is real-world examples and research problems using

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**TensorFlow, Keras, and the
Python ecosystem with hands-
on examples. The book starts
with the key essential
concepts of ML and DL,
followed by depiction and
coverage of important DL
architectures such as**

convolutional neural networks (CNNs), deep neural networks (DNNs), recurrent neural networks (RNNs), long short-term memory (LSTM), and capsule networks. Our focus then shifts to transfer learning concepts, such as

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model freezing, fine-tuning, pre-trained models including VGG, inception, ResNet, and how these systems perform better than DL models with practical examples. In the concluding chapters, we will focus on a multitude of real-

world case studies and problems associated with areas such as computer vision, audio analysis and natural language processing (NLP). By the end of this book, you will be able to implement both DL and

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**transfer learning principles in
your own systems. What you
will learn Set up your own DL
environment with graphics
processing unit (GPU) and
Cloud support Delve into
transfer learning principles
with ML and DL models**

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**Explore various DL
architectures, including CNN,
LSTM, and capsule networks
Learn about data and network
representation and loss
functions Get to grips with
models and strategies in
transfer learning Walk**

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**through potential challenges
in building complex transfer
learning models from scratch
Explore real-world research
problems related to computer
vision and audio analysis
Understand how transfer
learning can be leveraged in**

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**NLP Who this book is for
Hands-On Transfer Learning
with Python is for data
scientists, machine learning
engineers, analysts and
developers with an interest in
data and applying state-of-the-
art transfer learning**

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**methodologies to solve tough
real-world problems. Basic
proficiency in machine
learning and Python is
required.**

**Machine Learning for
Planetary Science presents
planetary scientists with a way**

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to introduce machine learning into the research workflow as increasingly large nonlinear datasets are acquired from planetary exploration missions. The book explores research that leverages machine learning methods to

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**enhance our scientific
understanding of planetary
data and serves as a guide for
selecting the right methods
and tools for solving a variety
of everyday problems in
planetary science using
machine learning. Illustrating**

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ways to employ machine learning in practice with case studies, the book is clearly organized into four parts to provide thorough context and easy navigation. The book covers a range of issues, from data analysis on the ground to

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**data analysis onboard a
spacecraft, and from
prioritization of novel or
interesting observations to
enhanced missions planning.
This book is therefore a key
resource for planetary
scientists working in data**

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**analysis, missions planning,
and scientific observation.
Includes links to a code
repository for sharing codes
and examples, some of which
include executable Jupyter
notebook files that can serve
as tutorials Presents methods**

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**applicable to everyday
problems faced by planetary
scientists and sufficient for
analyzing large datasets
Serves as a guide for selecting
the right method and tools for
applying machine learning to
particular analysis problems**

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**Utilizes case studies to
illustrate how machine
learning methods can be
employed in practice**
**A Beginner's Guide to Data
Agglomeration and Intelligent
Sensing**
Computational Perspectives

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**The Art and Science of
Analyzing Software Data
Big Data Processing with
Apache Spark**

**Real World AI
The Technology Takers
*Deep Learning through***

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*Sparse Representation and
Low-Rank Modeling bridges
classical sparse and low
rank models—those that
emphasize problem-specific
Interpretability—with
recent deep network models*

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that have enabled a larger learning capacity and better utilization of Big Data. It shows how the toolkit of deep learning is closely tied with the sparse/low rank methods

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*and algorithms, providing
a rich variety of
theoretical and analytic
tools to guide the design
and interpretation of deep
learning models. The
development of the theory*

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*and models is supported by
a wide variety of
applications in computer
vision, machine learning,
signal processing, and
data mining. This book
will be highly useful for*

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*researchers, graduate
students and practitioners
working in the fields of
computer vision, machine
learning, signal
processing, optimization
and statistics. Combines*

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classical sparse and low-rank models and algorithms with the latest advances in deep learning networks Shows how the structure and algorithms of sparse and low-rank methods

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*improves the performance
and interpretability of
Deep Learning models
Provides tactics on how to
build and apply customized
deep learning models for
various applications*

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*Learn the techniques and
math you need to start
making sense of your data
About This Book Enhance
your knowledge of coding
with data science theory
for practical insight into*

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*Tecniche Base Della Scienza
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data science and analysis

**More than just a math
class, learn how to
perform real-world data
science tasks with R and
Python Create actionable
insights and transform raw**

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*data into tangible value
Who This Book Is For You
should be fairly well
acquainted with basic
algebra and should feel
comfortable reading
snippets of R/Python as*

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well as pseudo code. You should have the urge to learn and apply the techniques put forth in this book on either your own data sets or those provided to you. If you

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*have the basic math skills
but want to apply them in
data science or you have
good programming skills
but lack math, then this
book is for you. What You
Will Learn Get to know the*

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*five most important steps
of data science Use your
data intelligently and
learn how to handle it
with care Bridge the gap
between mathematics and
programming Learn about*

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*probability, calculus, and
how to use statistical
models to control and
clean your data and drive
actionable results Build
and evaluate baseline
machine learning models*

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*Explore the most effective
metrics to determine the
success of your machine
learning models Create
data visualizations that
communicate actionable
insights Read and apply*

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*machine learning concepts
to your problems and make
actual predictions In
Detail Need to turn your
skills at programming into
effective data science
skills? Principles of Data*

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*Science is created to help
you join the dots between
mathematics, programming,
and business analysis.
With this book, you'll
feel confident about
asking—and*

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answering—complex and sophisticated questions of your data to move from abstract and raw statistics to actionable ideas. With a unique approach that bridges the

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*gap between mathematics
and computer science, this
books takes you through
the entire data science
pipeline. Beginning with
cleaning and preparing
data, and effective data*

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mining strategies and techniques, you'll move on to build a comprehensive picture of how every piece of the data science puzzle fits together. Learn the fundamentals of

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*computational mathematics
and statistics, as well as
some pseudocode being used
today by data scientists
and analysts. You'll get
to grips with machine
learning, discover the*

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*statistical models that
help you take control and
navigate even the densest
datasets, and find out how
to create powerful
visualizations that
communicate what your data*

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means. Style and approach

*This is an easy-to-
understand and accessible
tutorial. It is a step-by-
step guide with use cases,
examples, and
illustrations to get you*

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*well-versed with the
concepts of data science.
Along with explaining the
fundamentals, the book
will also introduce you to
slightly advanced concepts
later on and will help you*

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*implement these techniques
in the real world.*

*Get into the world of
smart data security using
machine learning
algorithms and Python
libraries Key*

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Features Learn machine
learning algorithms and
cybersecurity
fundamentals Automate your
daily workflow by applying
use cases to many facets
of security Implement smart

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*machine learning solutions
to detect various
cybersecurity problems*Book
*Description Cyber threats
today are one of the
costliest losses that an
organization can face. In*

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this book, we use the most efficient tool to solve the big problems that exist in the cybersecurity domain. The book begins by giving you the basics of ML in cybersecurity using

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Python and its libraries.

*You will explore various
ML domains (such as time
series analysis and
ensemble modeling) to get
your foundations right.*

You will implement various

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*examples such as building
system to identify
malicious URLs, and
building a program to
detect fraudulent emails
and spam. Later, you will
learn how to make*

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*effective use of K-means
algorithm to develop a
solution to detect and
alert you to any malicious
activity in the network.
Also learn how to
implement biometrics and*

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*fingerprint to validate
whether the user is a
legitimate user or not.
Finally, you will see how
we change the game with
TensorFlow and learn how
deep learning is effective*

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*for creating models and
training systems What you
will learn Use machine
learning algorithms with
complex datasets to
implement cybersecurity
concepts Implement machine*

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*learning algorithms such
as clustering, k-means,
and Naive Bayes to solve
real-world problems Learn
to speed up a system using
Python libraries with
NumPy, Scikit-learn, and*

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*CUDA Understand how to
combat malware, detect
spam, and fight financial
fraud to mitigate cyber
crimes Use TensorFlow in
the cybersecurity domain
and implement real-world*

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*examples Learn how machine
learning and Python can be
used in complex cyber
issues Who this book is for
This book is for the data
scientists, machine
learning developers,*

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security researchers, and anyone keen to apply machine learning to up-skill computer security. Having some working knowledge of Python and being familiar with the

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*basics of machine learning
and cybersecurity*

*fundamentals will help to
get the most out of the
book*

*A Beginners Guide to Data
Agglomeration and*

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Intelligent Sensing provides an overview of the Sensor Cloud Platform, Converge-casting, and Data Aggregation in support of intelligent sensing and relaying of information.

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The book begins with a brief introduction on sensors and transducers, giving readers insight into the various types of sensors and how one can work with them. In

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*addition, it gives several
real-life examples to help
readers properly
understand concepts. An
overview of concepts such
as wireless sensor
networks, cloud platforms,*

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*and device-to-cloud and
sensor cloud architecture
are explained briefly, as
is data gathering in
wireless sensor networks
and aggregation
procedures. Final sections*

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*explore how to process
gathered data and relay
the data in an intelligent
way, including concepts
such as supervised and
unsupervised learning,
software defined networks,*

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*sensor data mining and
smart systems. Presents
the latest advances in
data agglomeration for
intelligent sensing
Discusses the basic
concepts of sensors, real-*

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*life applications of
sensors and systems, the
protocols and applications
of wireless sensor
networks, the methodology
of sensor data
accumulation, and real-*

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*life applications of
Intelligent Sensor
Networks Provides readers
with an easy-to-learn and
understand introduction to
the concepts of the cloud
platform, Sensor Cloud and*

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Machine Learning

*Machine Learning and Data
Science in the Oil and Gas
Industry
A Practical Guide for
Responsible Machine
Learning*

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*Practical Applications
Artificial Intelligence
and Data Science in
Environmental Sensing
Essential Tools for
Working with Data
Principles of Data Science*

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***Volume 2: Societal and
Medical Perspectives***

The Era of Artificial Intelligence, Machine Learning and Data Science in the Pharmaceutical Industry examines the drug discovery process, assessing how new technologies have improved effectiveness. Artificial intelligence and

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machine learning are considered the future for a wide range of disciplines and industries, including the pharmaceutical industry. In an environment where producing a single approved drug costs millions and takes many years of rigorous testing prior to its approval, reducing costs

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and time is of high interest. This book follows the journey that a drug company takes when producing a therapeutic, from the very beginning to ultimately benefitting a patient's life. This comprehensive resource will be useful to those working in the pharmaceutical industry, but will also

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be of interest to anyone doing research in chemical biology, computational chemistry, medicinal chemistry and bioinformatics. Demonstrates how the prediction of toxic effects is performed, how to reduce costs in testing compounds, and its use in animal research Written

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by the industrial teams who are
conducting the work, showcasing how
the technology has improved and
where it should be further improved
Targets materials for a better
understanding of techniques from
different disciplines, thus creating a
complete guide

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Data Science for COVID-19, Volume 2: Societal and Medical Perspectives presents the most current and leading-edge research into the applications of a variety of data science techniques for the detection, mitigation, treatment and elimination of the COVID-19 virus. At this point, Cognitive Data Science is

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the most powerful tool for researchers to fight COVID-19. Thanks to instant data-analysis and predictive techniques, including Artificial Intelligence, Machine Learning, Deep Learning, Data Mining, and computational modeling for processing large amounts of data, recognizing

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patterns, modeling new techniques,
and improving both research and
treatment outcomes is now possible.
Provides a leading-edge survey of
Data Science techniques and methods
for research, mitigation and the
treatment of the COVID-19 virus
Integrates various Data Science

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Doi Dati
techniques to provide a resource for
COVID-19 researchers and clinicians
around the world, including the wide
variety of impacts the virus is having
on societies and medical practice
Presents insights into innovative, data-
oriented modeling and predictive
techniques from COVID-19

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researchers around the world,
including geoprocessing and tracking,
lab data analysis, and theoretical
views on a variety of technical
applications Includes real-world
feedback and user experiences from
physicians and medical staff from
around the world for medical treatment

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perspectives, public safety policies
and impacts, sociological and
psychological perspectives, the effects
of COVID-19 in agriculture,
economies, and education, and
insights on future pandemics
An accessible introduction to the
artificial intelligence technology that

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enables computer vision, speech recognition, machine translation, and driverless cars. Deep learning is an artificial intelligence technology that enables computer vision, speech recognition in mobile phones, machine translation, AI games, driverless cars, and other applications. When we use

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consumer products from Google, Microsoft, Facebook, Apple, or Baidu, we are often interacting with a deep learning system. In this volume in the MIT Press Essential Knowledge series, computer scientist John Kelleher offers an accessible and concise but comprehensive

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introduction to the fundamental technology at the heart of the artificial intelligence revolution. Kelleher explains that deep learning enables data-driven decisions by identifying and extracting patterns from large datasets; its ability to learn from complex data makes deep learning

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ideally suited to take advantage of the rapid growth in big data and computational power. Kelleher also explains some of the basic concepts in deep learning, presents a history of advances in the field, and discusses the current state of the art. He describes the most important deep

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learning architectures, including autoencoders, recurrent neural networks, and long short-term networks, as well as such recent developments as Generative Adversarial Networks and capsule networks. He also provides a comprehensive (and comprehensible)

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introduction to the two fundamental algorithms in deep learning: gradient descent and backpropagation. Finally, Kelleher considers the future of deep learning—major trends, possible developments, and significant challenges.

Implementing Data-Driven Strategies

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in Smart Cities is a guidebook and roadmap for practitioners seeking to operationalize data-driven urban interventions. The book opens by exploring the revolution that big data, data science, and the Internet of Things are making feasible for the city. It explores alternate topologies,

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typologies, and approaches to operationalize data science in cities, drawn from global examples including top-down, bottom-up, greenfield, brownfield, issue-based, and data-driven. It channels and expands on the classic data science model for data-driven urban interventions – data

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capture, data quality, cleansing and curation, data analysis, visualization and modeling, and data governance, privacy, and confidentiality.

Throughout, illustrative case studies demonstrate successes realized in such diverse cities as Barcelona, Cologne, Manila, Miami, New York,

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Nancy, Nice, S ã o Paulo, Seoul,
Singapore, Stockholm, and Zurich.
Given the heavy emphasis on global
case studies, this work is particularly
suitable for any urban manager,
policymaker, or practitioner
responsible for delivering technological
services for the public sector from

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sectors as diverse as energy,
transportation, pollution, and waste
management. Explores numerous
specific urban interventions drawn
from global case studies, helping
readers understand real urban
challenges and create data-driven
solutions Provides a step-by-step and

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applied holistic guide and methodology
for immediate application in the
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Safeguard your system by making
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Deep Learning through Sparse and
Low-Rank Modeling

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

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***but only with the Python Data
Science Handbook do you get
them all—IPython, NumPy,
Pandas, Matplotlib, Scikit-Learn,
and other related tools. Working
scientists and data crunchers
familiar with reading and writing***

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***Python code will find this
comprehensive desk reference
ideal for tackling day-to-day
issues: manipulating,
transforming, and cleaning data;
visualizing different types of
data; and using data to build***

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

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***environments for data scientists
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the ndarray for efficient storage
and manipulation of dense data
arrays in Python Pandas:
features the DataFrame for
efficient storage and***

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***manipulation of
labeled/columnar data in Python
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Python implementations of the***

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***most important and established
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with state-of-the-art concepts,
methods, and technologies for
Big Data analytics in the fight***

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***against terrorism and crime,
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scenarios. This book combines
expertise from an international
team of experts in law
enforcement, national security,***

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and law, as well as computer sciences, criminology, linguistics, and psychology, creating a unique cross-disciplinary collection of knowledge and insights into this increasingly global issue. The

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strategic frameworks and critical factors presented in Application of Big Data for National Security consider technical, legal, ethical, and societal impacts, but also practical considerations of Big Data system design and

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deployment, illustrating how data and security concerns intersect. In identifying current and future technical and operational challenges it supports law enforcement and government agencies in their operational,

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***tactical and strategic decisions
when employing Big Data for
national security Contextualizes
the Big Data concept and how it
relates to national security and
crime detection and prevention
Presents strategic approaches***

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***for the design, adoption, and
deployment of Big Data
technologies in preventing
terrorism and reducing crime
Includes a series of case studies
and scenarios to demonstrate
the application of Big Data in a***

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national security context

***Indicates future directions for
Big Data as an enabler of
advanced crime prevention and
detection***

***Digital-era technologies lead
organizations to become***

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technology takers, the equivalent of economic "price takers." To be a technology taker is to assent to the behavior transforming benefits of modern technologies. This playbook offers technology takers tactics

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***to manage change, create value,
and exploit the digital era's
strategic opportunities.***

***Every leader understands the
burning need for change—and
every leader knows how risky it
is, and how often it fails. To***

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make organizational change work, you need to base it on science, not intuition. Despite hundreds of books on change, failure rates remain sky high. Are there deep flaws in the guidance change leaders are given? While

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***eschewing the pat answers,
linear models, and change
recipes offered elsewhere, Paul
Gibbons offers the first blueprint
for change that fully reflects the
newest advances in mindfulness,
behavioral economics, the***

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***psychology of risk-taking,
neuroscience, mindfulness, and
complexity theory. Change
management, ostensibly the craft
of making change happen, is rife
with myth, pseudoscience, and
flawed ideas from pop***

psychology. In Gibbons' view, change management should be "euthanized" and replaced with change agile businesses, with change leaders at every level. To achieve that, business education and leadership training in

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organizations needs to become more accountable for real results, not just participant satisfaction (the “edutainment” culture). Twenty-first century change leaders need to focus less on project results, more on

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creating agile cultures and businesses full of staff who have “get to” rather than “have to” attitudes. To do that, change leaders will have to leave behind the old paradigm of “carrots and sticks,” both of which destroy

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***engagement. “New analytics”
offer more data-driven
approaches to decision making,
but present a host of people
challenges—where petabyte
information flows meet
traditional decision-making***

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structures. These approaches will have to be complemented with “leading with science”—that is, using evidence-based management to inform strategy and policy decisions. In The Science of Successful

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***Organizational Change , you'll
learn: How the VUCA (Volatile,
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scale and pace of change in
today's businesses How
understanding of flaws in human***

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***decision-making can help
leaders guide their teams toward
wiser strategic decisions when
the stakes are largest—including
“when to trust your guy and
when to trust a model” and
“when all of us are smarter than***

one of us” How new advances in neuroscience have altered best practices in influencing colleagues; negotiating with partners; engaging followers’ hearts, minds, and behaviors; and managing resistance How

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***leading organizations are making
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mindfulness to create agile
learners and agile cultures How
new ideas from analytics,
forecasting, and risk are
humbling those who thought***

they knew the future—and how the human side of analytics and the psychology of risk are paradoxically more important in this technologically enabled world What complexity theory means for decision-making in the

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How to create resilient and agile
business cultures and anti-
fragile, dynamic business
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your "on-the-ground" reality,
Gibbons tells "warts and all"***

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This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get

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you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar

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with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize different

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**classification and regression
techniques Understand the
concept of clustering and how to
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intelligent recommender system
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and how to use it Build automatic**

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on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data.

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Artificial Intelligence

applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop

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various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to

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any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement

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Artificial Intelligence. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application.

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Questo libro si rivolge ai programmatori che vogliono entrare nel mondo della scienza dei dati scoprendo come unire competenze che spaziano dalla matematica alle analisi di business attraverso - naturalmente - la

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programmazione. Lo scopo è insegnare come affrontare dati eterogenei trasformandoli in idee e insight. Nel corso dei vari capitoli vengono presentati gli elementi che un data scientist deve padroneggiare: la definizione del dominio di analisi,

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il recupero e la pulizia di dati grezzi, il calcolo delle probabilità, i modelli statistici, fino all'applicazione di algoritmi di machine learning. Non mancano approfondimenti su come normalizzare e preparare i dati prima di un'analisi, oltre a

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suggerimenti su come presentare e comunicare i risultati in modo efficace. Tutti i passaggi chiave sono corredati da esempi di pseudocodice per illustrare al meglio gli algoritmi in uso mentre gli esempi di codice utilizzano prevalentemente il

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linguaggio Python.

How can you successfully deploy AI? When AI works, it's nothing short of brilliant, helping companies make or save tremendous amounts of money while delighting customers on an unprecedented scale. When it

fails, the results can be devastating. Most AI models never make it out of testing, but those failures aren't random. This practical guide to deploying AI lays out a human-first, responsible approach that has seen more than three times the

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success rate when compared to the industry average. In Real World AI, Alyssa Simpson Rochwerger and Wilson Pang share dozens of AI stories from startups and global enterprises alike featuring personal experiences from people who

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**have worked on global AI
deployments that impact billions
of people every day. AI for
business doesn't have to be
overwhelming. Real World AI
uses plain language to walk you
through an AI approach that you
can feel confident about-for your**

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Machine Learning Guide
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critical training and
resource tool to help
engineers understand
machine learning theory
and practice,
specifically referencing
use cases in oil and

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gas. The reference moves from explaining how Python works to step-by-step examples of utilization in various oil and gas scenarios, such as well testing,

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shale reservoirs and production optimization. Petroleum engineers are quickly applying machine learning techniques to their data challenges, but there is a lack of

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references beyond the
math or heavy theory of
machine learning.

Machine Learning Guide
for Oil and Gas Using
Python details the open-
source tool Python by

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explaining how it works
at an introductory level
then bridging into how
to apply the algorithms
into different oil and
gas scenarios. While
similar resources are

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often too mathematical,
this book balances
theory with
applications, including
use cases that help
solve different oil and
gas data challenges.

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Helps readers understand
how open-source Python
can be utilized in
practical oil and gas
challenges Covers the
most commonly used
algorithms for both

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supervised and
unsupervised learning
Presents a balanced
approach of both theory
and practicality while
progressing from
introductory to advanced

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analytical techniques

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tightly-focused
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scientist—but it does
explain how Artificial
Intelligence and Machine
Learning will
revolutionize your
company's marketing
strategy, and teach you

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how to use it most effectively. Data and analytics have become table stakes in modern marketing, but the field is ever-evolving with data scientists

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continually developing new algorithms—where does that leave you? How can marketers use the latest data science developments to their advantage? This book

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walks you through the
"need-to-know" aspects
of Artificial
Intelligence, including
natural language
processing, speech
recognition, and the

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power of Machine
Learning to show you how
to make the most of this
technology in a
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math required, this book
will help you: Speak
intelligently about
Artificial Intelligence
and its advantages in
marketing Understand how
marketers without a Data

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Science degree can make
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your company gain a
competitive advantage by
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technology in marketing
Marketing and data
science are two fast-
moving, turbulent

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spheres that often intersect; that intersection is where marketing professionals pick up the tools and methods to move their company forward.

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Artificial Intelligence
and Machine Learning
provide a data-driven
basis for more robust
and intensely-targeted
marketing strategies—and
companies that

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effectively utilize
these latest tools will
reap the benefit in the
marketplace. Artificial
Intelligence for
Marketing provides a
nontechnical crash

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