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support, effective communication between teams, and accessible data necessary to build great machine learning models.

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are orbiting the earth, and every day they beam vast oceans of information—including data that reflects climate change, health and poverty—to databases on the ground.

A machine learning breakthrough:

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Helping others use data is "like giving them a superpower," says the senior data scientist at an ag-tech startup, Plenty.

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Introduction to Data Science and  
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Machine learning plays a huge part in our lives, but as author Brian Christian asks in his new book, are these algorithms treating us fairly?

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and other market statistics. By segmentation, the global Machine Learning as a Service market is segmented by type and application, also involving important information for regional analysis and ...

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how data, analytics, and AI  
transformed industries.

Trilogy of Data, analytics, AI is

*Page 24/79*

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accelerating innovation across  
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Weighing the pros and cons of  
edge AI and the cloud can be  
difficult, McAfee's chief data  
scientist explained at Transform  
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Edge AI's benefits bring 'much higher' security risks, says McAfee data scientist

The demand for data scientists in India is growing. Newly launched data science programs in India will help data experts to learn the best and latest of data science.

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Newly Launched Data Science  
Programs in India

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Top 10 High Paying Data Science Profiles to Choose in 2021

The ability to extract insights

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from enormous sets of structured and unstructured data has revolutionized numerous fields — from marketing and medicine to agriculture and astronomy. Drawing on ...

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Knowledge science is an emerging discipline resulting from the demands of a knowledge-based economy and information revolution. Explaining how to improve our knowledge-based society, Knowledge Science: Modeling the Knowledge Creation

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Process addresses problems in collecting, synthesizing, coordinating, and creating knowledge. The book introduces several key concepts in knowledge science: Knowledge technology, which encompasses classification, representation,

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modeling, identification,  
acquisition, searching,  
organization, storage, conversion,  
and dissemination Knowledge  
management, which covers three  
different yet related areas  
(knowledge assets, knowing  
processes, knower relations)

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Knowledge discovery and data mining, which combine databases, statistics, machine learning, and related areas to discover and extract valuable knowledge from large volumes of data Knowledge synthesis, knowledge justification, and

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knowledge construction, which are important in solving real-life problems. Specialists in decision science, artificial intelligence, systems engineering, behavioral science, and management science, the book's contributors present their own original ideas,

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including an Oriental systems philosophy, a new episteme in the knowledge-based society, and a theory of knowledge construction. They emphasize the importance of systemic thinking for developing a better society in the current knowledge-based era.

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The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are

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traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine

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learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and

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support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition

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and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

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This book presents the refereed proceedings of the third International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2018, held in Cairo, Egypt, on February 22–24, 2018, and organized by the Scientific

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Research Group in Egypt (SRGE).  
The papers cover current  
research in machine learning, big  
data, Internet of Things,  
biomedical engineering, fuzzy  
logic, security, and intelligence  
swarms and optimization.

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The book provides an application-oriented overview of functional analysis, with extended and accessible presentations of key concepts such as spline basis functions, data smoothing, curve registration, functional linear models and dynamic systems

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Functional data analysis is put to work in a wide a range of applications, so that new problems are likely to find close analogues in this book The code in R and Matlab in the book has been designed to permit easy modification to adapt to new data

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structures and research problems

This book teaches the concepts and tools behind reporting modern data analyses in a reproducible manner.

Reproducibility is the idea that data analyses should be

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published or made available with their data and software code so that others may verify the findings and build upon them. The need for reproducible report writing is increasing dramatically as data analyses become more complex, involving larger

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datasets and more sophisticated computations. Reproducibility allows for people to focus on the actual content of a data analysis, rather than on superficial details reported in a written summary. In addition, reproducibility makes an analysis more useful to others

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because the data and code that actually conducted the analysis are available. This book will focus on literate statistical analysis tools which allow one to publish data analyses in a single document that allows others to easily execute the same analysis

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to obtain the same results.

This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large

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networks. Topics include the counterintuitive nature of data in high dimensions, important 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 clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic

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techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random

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graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

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Within the healthcare domain, big data is defined as any ``high volume, high diversity biological, clinical, environmental, and lifestyle information collected from single individuals to large cohorts, in relation to their health

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and wellness status, at one or several time points." Such data is crucial because within it lies vast amounts of invaluable information that could potentially change a patient's life, opening doors to alternate therapies, drugs, and diagnostic tools. Signal

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Processing and Machine Learning for Biomedical Big Data thus discusses modalities; the numerous ways in which this data is captured via sensors; and various sample rates and dimensionalities. Capturing, analyzing, storing, and visualizing

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such massive data has required new shifts in signal processing paradigms and new ways of combining signal processing with machine learning tools. This book covers several of these aspects in two ways: firstly, through theoretical signal processing

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chapters where tools aimed at big data (be it biomedical or otherwise) are described; and, secondly, through application-driven chapters focusing on existing applications of signal processing and machine learning for big biomedical data. This text

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aimed at the curious researcher working in the field, as well as undergraduate and graduate students eager to learn how signal processing can help with big data analysis. It is the hope of Drs. Sejdic and Falk that this book will bring together signal

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processing and machine learning researchers to unlock existing bottlenecks within the healthcare field, thereby improving patient quality-of-life. Provides an overview of recent state-of-the-art signal processing and machine learning algorithms for biomedical

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big data, including applications in the neuroimaging, cardiac, retinal, genomic, sleep, patient outcome prediction, critical care, and rehabilitation domains.

Provides contributed chapters from world leaders in the fields of big data and signal processing,

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covering topics such as data quality, data compression, statistical and graph signal processing techniques, and deep learning and their applications within the biomedical sphere. This book's material covers how expert domain knowledge can be

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used to advance signal processing and machine learning for biomedical big data applications.

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python

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3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the

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process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science

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and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started

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with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and

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manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

The European Conference on Machine Learning (ECML) and the

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European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD) were jointly organized this year for the 7th time in a row, after some years of mutual independence before. After Freiburg (2001), Helsinki

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(2002), Cavtat (2003) and Pisa (2004), Porto received the 16th edition of ECML and the 9th PKDD in October 3–7. Having the two conferences together seems to be working well: 585 different paper submissions were received for both events, which maintains the

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high s- mission standard of last year. Of these, 335 were submitted to ECML only, 220 to PKDD only and 30 to both. Such a high volume of scienti?c work required a tremendous e?ort from Area Chairs, Program Committee members and some additional

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reviewers. On average, PC members had 10 papers to evaluate, and Area Chairs had 25 papers to decide upon. We managed to have 3 highly qualified independent reviews per paper (with very few exceptions) and one additional overall input from one of the

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Area Chairs. After the authors' responses and the online discussions for many of the papers, we arrived at the final selection of 40 regular papers for ECML and 35 for PKDD. Besides these, 32 others were accepted as short papers for ECML and 35

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for PKDD. This represents a joint acceptance rate of around 13% for regular papers and 25% overall. We thank all involved for all the effort with reviewing and selection of papers. Besidesthecor etechnicalprogram,ECMLandPKDD had6invitedspeakers, 10

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workshops, 8 tutorials and a  
Knowledge Discovery Challenge.

This book constitutes the refereed  
proceedings of the 13th  
International Baltic Conference on  
Databases and Information  
Systems, DB&IS 2018, held in

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Trakai, Lithuania, in July 2018.  
The 24 revised papers presented  
were carefully reviewed and  
selected from 69 submissions.  
The papers are centered around  
topics like information systems  
engineering, enterprise  
information systems, business

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process management, knowledge representation, ontology engineering, systems security, information systems applications, database systems, machine learning, big data analysis, big data processing, cognitive computing.

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