

# Sap Leonardo Machine Learning Foundation

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[A Greater Foundation for Machine Learning Engineering](#) - Dr. Ganapathi Pulipaka 2021-10-01  
This research scholarly illustrated book has more than 250 illustrations. The simple models of supervised machine learning with Gaussian Naïve Bayes, Naïve Bayes, decision trees, classification rule learners, linear regression, logistic regression, local polynomial regression, regression trees, model trees, K-nearest neighbors, and support vector machines lay a more excellent foundation for statistics. The author of the book Dr. Ganapathi Pulipaka, a top influencer of machine learning in the US, has created this as a reference book for universities. This book contains an incredible foundation for machine learning and engineering beyond a compact manual. The author goes to extraordinary lengths to make academic machine learning and deep learning literature comprehensible to create a new body of knowledge. The book aims at readership from university students, enterprises, data science beginners, machine learning and deep learning engineers at scale for high-performance computing environments. A Greater Foundation of Machine Learning Engineering covers a broad range of classical linear algebra and calculus with program implementations in PyTorch, TensorFlow, R, and Python with in-depth coverage. The author does not hesitate to go into math equations for each algorithm at length that usually many foundational machine learning books lack leveraging the JupyterLab environment. Newcomers can leverage the book from University or people from all walks of data science or software lives to the advanced practitioners of machine learning and deep learning. Though the book title suggests machine learning, there are several implementations of deep learning algorithms, including deep reinforcement learning. The book's mission is to help build a strong foundation for machine learning and deep learning engineers with all the algorithms, processors to train and deploy into production for enterprise-wide machine learning implementations. This book also introduces all the concepts of natural language processing required for machine learning algorithms in Python. The book covers Bayesian statistics without assuming high-level mathematics or statistics experience from the readers. It delivers the core concepts and implementations required with R code with open datasets. The book also covers unsupervised machine learning algorithms with association rules and k-means clustering, metal-learning algorithms, bagging, boosting, random forests, and ensemble methods. The book delves into the origins of deep learning in a scholarly way covering neural networks, restricted Boltzmann machines, deep belief networks, autoencoders, deep Boltzmann machines, LSTM, and natural language processing techniques with deep learning algorithms and math equations. It leverages the NLTK library of Python with PyTorch, Python, and TensorFlow's installation steps, then demonstrates how to build neural networks with TensorFlow. Deploying machine learning algorithms require a blend of cloud computing platforms, SQL databases, and NoSQL databases. Any data scientist with a statistics background that looks to transition into a machine learning engineer role requires an in-depth understanding of machine learning project implementations on Amazon, Google, or Microsoft Azure cloud computing platforms. The book provides real-world client projects for understanding the complete implementation of machine learning algorithms. This book is a marvel that does not leave any application of machine learning and deep learning algorithms. It sets a more excellent foundation for newcomers and expands the horizons for

experienced deep learning practitioners. It is almost inevitable that there will be a series of more advanced algorithms follow-up books from the author in some shape or form after setting such a perfect foundation for machine learning engineering.

[The Digital Journey of Banking and Insurance, Volume III](#) - Volker Liermann 2021-10-27  
This book, the third one of three volumes, focuses on data and the actions around data, like storage and processing. The angle shifts over the volumes from a business-driven approach in "Disruption and DNA" to a strong technical focus in "Data Storage, Processing and Analysis", leaving "Digitalization and Machine Learning Applications" with the business and technical aspects in-between. In the last volume of the series, "Data Storage, Processing and Analysis", the shifts in the way we deal with data are addressed.

[Artificial Intelligence for Business Analytics](#) - Felix Weber 2023-03-01  
While methods of artificial intelligence (AI) were until a few years ago exclusively a topic of scientific discussions, today they are increasingly finding their way into products of everyday life. At the same time, the amount of data produced and available is growing due to increasing digitalization, the integration of digital measurement and control systems, and automatic exchange between devices (Internet of Things). In the future, the use of business intelligence (BI) and a look into the past will no longer be sufficient for most companies. Instead, business analytics, i.e., predictive and predictive analyses and automated decisions, will be needed to stay competitive in the future. The use of growing amounts of data is a significant challenge and one of the most important areas of data analysis is represented by artificial intelligence methods. This book provides a concise introduction to the essential aspects of using artificial intelligence methods for business analytics, presents machine learning and the most important algorithms in a comprehensible form using the business analytics technology framework, and shows application scenarios from various industries. In addition, it provides the Business Analytics Model for Artificial Intelligence, a reference procedure model for structuring BA and AI projects in the company. This book is a translation of the original German 1st edition Künstliche Intelligenz für Business Analytics by Felix Weber, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2020. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors.

[SAP Cloud Platform](#) - Gairik Acharya 2018-12-28  
Learn to build cloud applications from the ground up using SAP Cloud Platform. Explore the Neo and Cloud Foundry development environments; pick your backend language from a selection including Java, Node.js, and ABAP; and create a frontend with SAPUI5 and SAP Fiori, and more. Once your app is ready to run, secure, test, and monitor it before delivery and implementation. Then find out how to integrate essential SAP Cloud Platform services like the SAP Leonardo toolset. Take your apps to the next level a. Application Development Learn the ins and outs of application development, from Java, Node.js, Python, SAP HANA XS, SAP HANA XSA, and ABAP

in the backend. For the frontend, explore SAPUI5, SAP Fiori, and SAP Web IDE. b. Lifecycle Management Secure and monitor applications, set up a continuous delivery and continuous integration pipeline, and implement DevOps best practices. c. Microservices Integrate your applications with SAP Cloud Platform microservices like Internet of Things 4.0, machine learning, and blockchain from the SAP Leonardo toolset. 1) SAP Cloud Platform 2) Neo Environment 3) Cloud Foundry 4) Microservices 5) Frontend and backend development 6) Application lifecycle management 7) SAP Leonardo 8) Java 9) SAPUI5 10) CI/CD 11) DevOps Handbook Of Digital Enterprise Systems: Digital Twins, Simulation And Ai - Wolfgang Kuhn 2019-06-04

Digitalization is changing nearly everything. This compendium highlights a comprehensive understanding of the concepts and technologies about digitalization in industrial environments, using the Industrial Internet of Things, Digital Twins and data-driven decision-making approaches including Artificial Intelligence. The overview of industrial enterprise platforms and the consideration of future trends gives a fundamental idea of concepts and strategies, how to get started and about the required changes of business models.

Artificial Intelligence Applications and Innovations - John MacIntyre 2019-05-15

This book constitutes the refereed proceedings of the 15th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2019, held in Hersonissos, Crete, Greece, in May 2019. The 49 full papers and 6 short papers presented were carefully reviewed and selected from 101 submissions. They cover a broad range of topics such as deep learning ANN; genetic algorithms - optimization; constraints modeling; ANN training algorithms; social media intelligent modeling; text mining/machine translation; fuzzy modeling; biomedical and bioinformatics algorithms and systems; feature selection; emotion recognition; hybrid Intelligent models; classification - pattern recognition; intelligent security modeling; complex stochastic games; unsupervised machine learning; ANN in industry; intelligent clustering; convolutional and recurrent ANN; recommender systems; intelligent telecommunications modeling; and intelligent hybrid systems using Internet of Things. The papers are organized in the following topical sections: AI anomaly detection - active learning; autonomous vehicles - aerial vehicles; biomedical AI; classification - clustering; constraint programming - brain inspired modeling; deep learning - convolutional ANN; fuzzy modeling; learning automata - logic based reasoning; machine learning - natural language; multi agent - IoT; nature inspired flight and robot; control - machine vision; and recommendation systems.

SAP Data Intelligence - Dharma Teja Atluri 2021

Manage your data landscape with SAP Data Intelligence! Begin by understanding its architecture and capabilities and then see how to set up and install SAP Data Intelligence with step-by-step instructions. Walk through SAP Data Intelligence applications and learn how to use them for data governance, orchestration, and machine learning. Integrate with ABAP-based systems, SAP Vora, SAP Analytics Cloud, and more. Manage, secure, and operate SAP Data Intelligence with this all-in-one guide! In this book, you'll learn about: a. Configuration Build your SAP Data Intelligence landscape! Use SAP Cloud Appliance Library for cloud deployment, including provisioning, sizing, and accessing the launchpad. Perform on-premise installations using tools like the maintenance planner. b. Capabilities Put the core capabilities of SAP Data Intelligence to work! Manage and govern your data with the metadata explorer, use the modeler application to create data processing pipelines, create apps with the Jupyter Notebook, and more. c. Integration and Administration Integrate, manage, and operate SAP Data Intelligence! Get step-by-step instructions for integration with SAP and non-SAP systems. Learn about key administration tasks and make sure your landscape is secure and running smoothly. Highlights include: 1) Configuration and installation 2) Data governance 3) Data processing pipelines 4) Docker images 5) ML Scenario Manager 6) Jupyter Notebook 7) Python SDK 8) Integration 9) Administration 10) Security 11) Application lifecycle management 12) Use cases

Sprint - Jake Knapp 2016-03-08

NEW YORK TIMES BESTSELLER WALL STREET JOURNAL BESTSELLER "Sprint offers a transformative formula for testing ideas that works whether you're at a startup or a large organization. Within five days, you'll move from idea to prototype to decision, saving you and your team countless hours and countless dollars. A must read for entrepreneurs of all stripes." -- Eric Ries, author of *The Lean Startup* From three partners at Google Ventures, a unique five-day process for solving tough problems, proven at more than a hundred companies. Entrepreneurs and leaders face big questions every day: What's the most important place to focus your effort, and how do you start? What will your idea look like in real life? How many meetings and discussions does it take before you can be sure you have the right solution? Now there's a surefire way to answer these important questions: the sprint. Designer Jake Knapp created the five-day process at Google, where sprints were used on everything from Google Search to Google X. He joined Braden Kowitz and John Zeratsky at Google Ventures, and together they have completed more than a hundred sprints with companies in mobile, e-commerce, healthcare, finance, and more. A practical guide to answering critical business questions, *Sprint* is a book for teams of any size, from small startups to Fortune 100s, from teachers to nonprofits. It's for anyone with a big opportunity, problem, or idea who needs to get answers today.

**Proceedings of International Conference on Intelligent Computing, Information and Control Systems** - A. Pasumpon Pandian 2021-01-24

This book is a collection of papers presented at the International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2020). It encompasses various research works that help to develop and advance the next-generation intelligent computing and control systems. The book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications. The book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural networks and various neuro-hybrid methodologies. This book is pragmatic for researchers, academicians and students dealing with mathematically intransigent problems.

**Digital Transformation** - Anup Maheshwari 2019-09-04

Building Intelligent Enterprises by leveraging the emerging and next-generation technologies to accelerate the adoption of digital transformation The speed of innovation and emerging IT technologies are changing at a very fast pace and enterprises are eager to join the digital revolution so they can stand above the competition and succeed as the enterprise of tomorrow. This book is an attempt to make the enterprise intelligent by providing the path to digital transformation and the adoption of new IT methods, tools and technologies. This book has been organized to cover the following topics: Digital Transformation, Design Thinking, Agile, DevOps, Robotic Process Automation, Internet of Things, Artificial Intelligence, Machine Learning, Blockchain, Drones, Augmented and Virtual Reality, 3D Printing, Big Data, Analytics, Cloud Computing, APIs, and SAP Leonardo. No prior knowledge of any technical coding or language is necessary to understand the content of this book. End-to-end storyline to accelerate the enterprise's digital transformation journey How an enterprise can stay relevant, compete, and perform in the digital economy How to leverage these technologies to build intelligent enterprises Understand and apply the emerging technologies across key business processes Industry-specific Use Cases for all technologies as a reference point to build the business case for implementation The book is very well suited towards the C-Suite executives, both IT and business leaders, directors and managers, project managers, solution architects, and all professionals who have an interest and desire to keep up-to-date with the latest technological trends, looking for a career change, want to help enterprise adapt and onboard the digital roadmap, or have an agenda to digitize key processes within the enterprise to make it intelligent.

**Decision-Maker's Guide to SAP S/4HANA Cloud, essentials edition** - Anurag Barua 2020-08-14

This guide introduces readers to the fundamentals of cloud computing with SAP technologies and applications and dives deep into SAP S/4HANA Cloud, essentials edition, formerly known as SAP S/4HANA Public Cloud or multitenant edition (MTE). Explore and evaluate SAP S/4HANA deployment models and compare and contrast the similarities and differences between them. Obtain a multi-dimensional understanding of SAP S/4HANA Cloud, essentials edition, including business functionality coverage, landscape and systems, configuration and extensions, release strategy, user experience, and the implementation framework, SAP Activate. Walk through the detailed criteria and arm yourself with the information you need to make a fully informed decision on whether S/4HANA Cloud, essentials edition is the right choice for your organization.

- Basics of cloud computing in SAP and SAP Cloud strategy
- Analysis of SAP S/4HANA deployment models
- DNA of S/4HANA Cloud, essentials edition
- SAP S/4HANA Cloud assessment criteria and considerations

*Guia para iniciantes do SAP* - Eduardo Noronha Chagas 2018-05-09

Você gostaria de entender os fundamentos básicos do software SAP sem ter que ler 400 ou mais páginas? Sim? Então, este livro foi feito para você! Seus autores enfatizam o essencial e deixam de lado os detalhes desnecessários para iniciantes. Com exemplos simples e diretos, conheça os fundamentos do sistema SAP Enterprise Resource Planning (ERP), incluindo navegação, transações, unidades organizacionais e dados mestres. Vídeos instrutivos ajudam você a experimentar o software SAP sem requerer acesso ao sistema SAP. Obtenha uma visão geral do portfólio existente de produtos SAP além do SAP ERP. Saiba mais sobre o lado técnico do SAP ERP, incluindo soluções do setor industrial, ABAP e enhancement packages (EHP). Veja uma pequena introdução a BI, CRM, SRM, SCM, GRC, NetWeaver, SuccessFactors e HANA. Descomplique os acrônimos de SAP e obtenha esclarecimento sobre a finalidade de diferentes produtos SAP.

- Aprenda a navegar no SAP ERP
- Conheça o básico do SAP, incluindo transações, unidades organizacionais e dados mestres
- Assista a vídeos instrutivos com exemplos simples e diretos
- Obtenha uma visão geral dos produtos SAP e novas tendências de desenvolvimento

Com a solução Localização Brasil, a SAP oferece diversas configurações e transações a fim de atender aos requisitos de cálculo de impostos, geração de nota fiscal de mercadoria e serviços, bem como a geração do conhecimento de transporte e relatórios legais específicos para o Brasil.

**Learning from Data** - Yaser S. Abu-Mostafa 2012-01-01

**SAP Predictive Analytics** - Antoine Chabert 2017-12-30

Leave your crystal ball behind and peer into the future with SAP Predictive Analytics! Master predictive models--regression, time series forecasting, clustering, and more--and learn how to get SAP Predictive Analytics up and running. Discover the essential tools, from Predictive Factory and the Automated Modeler to the Data Manager and Social Network Analysis. Get predictive analysis working for you! Highlights include: Predictive models Classification models Regression models Time-series forecasting models Predictive Factory Automated Analytics Expert Analytics Social Network Analysis (SNA) Data Manager Installation Integration

**Architecting Solutions with SAP Business Technology Platform** - Serdar Simsekler 2022-10-28

A practical handbook packed with expert advice on architectural considerations for designing solutions using SAP BTP to drive digital innovation Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Guide your customers with proven architectural strategies and considerations on SAP BTP Tackle challenges in building process and data integration across complex and hybrid landscapes Discover SAP BTP services, including visualizations, practical business scenarios, and more Book Description SAP BTP is the foundation of SAP's intelligent and sustainable enterprise vision for its customers. It's efficient, agile, and an enabler of innovation. It's technically robust, yet its superpower is its business centricity. If you're involved in building IT and business strategies, it's essential to familiarize yourself with SAP BTP to see the big picture for digitalization with SAP solutions. Similarly, if

you have design responsibilities for enterprise solutions, learning SAP BTP is crucial to produce effective and complete architecture designs. This book teaches you about SAP BTP in five parts. First, you'll see how SAP BTP is positioned in the intelligent enterprise. In the second part, you'll learn the foundational elements of SAP BTP and find out how it operates. The next part covers integration architecture guidelines, integration strategy considerations, and integration styles with SAP's integration technologies. Later, you'll learn how to use application development capabilities to extend enterprise solutions for innovation and agility. This part also includes digital experience and process automation capabilities. The last part covers how SAP BTP can facilitate data-to-value use cases to produce actionable business insights. By the end of this SAP book, you'll be able to architect solutions using SAP BTP to deliver high business value. What you will learn Explore value propositions and business processes enabled by SAP's Intelligent and Sustainable Enterprise Understand SAP BTP's foundational elements, such as commercial and account models Discover services that can be part of solution designs to fulfill non-functional requirements Get to grips with integration and extensibility services for building robust solutions Understand what SAP BTP offers for digital experience and process automation Explore data-to-value services that can help manage data and build analytics use cases Who this book is for This SAP guide is for technical architects, solutions architects, and enterprise architects working with SAP solutions to drive digital transformation and innovation with SAP BTP. Some IT background and an understanding of basic cloud concepts is assumed. Working knowledge of the SAP ecosystem will also be beneficial.

**INTELLIGENT AUTOMATION** - PASCAL. BARKIN BORNET (IAN. WIRTZ, JOCHEN.) 2020

**Machine Learning and Knowledge Discovery in Databases. Research Track** - Nuria Oliver 2021-09-10

The multi-volume set LNAI 12975 until 12979 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases, ECML PKDD 2021, which was held during September 13-17, 2021. The conference was originally planned to take place in Bilbao, Spain, but changed to an online event due to the COVID-19 pandemic. The 210 full papers presented in these proceedings were carefully reviewed and selected from a total of 869 submissions. The volumes are organized in topical sections as follows: Research Track: Part I: Online learning; reinforcement learning; time series, streams, and sequence models; transfer and multi-task learning; semi-supervised and few-shot learning; learning algorithms and applications. Part II: Generative models; algorithms and learning theory; graphs and networks; interpretation, explainability, transparency, safety. Part III: Generative models; search and optimization; supervised learning; text mining and natural language processing; image processing, computer vision and visual analytics. Applied Data Science Track: Part IV: Anomaly detection and malware; spatio-temporal data; e-commerce and finance; healthcare and medical applications (including Covid); mobility and transportation. Part V: Automating machine learning, optimization, and feature engineering; machine learning based simulations and knowledge discovery; recommender systems and behavior modeling; natural language processing; remote sensing, image and video processing; social media.

**SAP Next-Gen** - Bernd Welz 2018-04-04

This book presents SAP Next-Gen, an innovation community for SAP Leonardo. It is intended for next generation business leaders, Chief Digital Officers, Chief Innovation Officers, Chief Information Officers and IT professionals who are defining the vision, strategy, technologies and organizational changes needed to drive their exponential enterprise and to innovate with purpose. The book opens with an introduction to turning bold ideas into reality with a purpose-driven mindset supporting the 17 United Nations Global Goals. Part 1 focuses on what's at stake including Digital - The New Normal, Exponential Growth, and Innovation in the 21st century. Part 2 introduces readers to the SAP Next-Gen matchmaking model, and readers are invited to join SAP Next-Gen clubs for industries, technologies, and methodologies. Readers also learn

about the Silicon Valleys of the world, make vs. buy vs. join, and where to learn more and get engaged with SAP Next-Gen. SAP Next-Gen is an innovation community for SAP Leonardo supporting SAP's 355,000+ customers across 25 industries in 180+ countries. SAP Next-Gen enables customers and partners to connect with academic thought leaders, researchers, and students in the SAP Next-Gen network of 3,200+ educational institutions across 111 countries worldwide, as well as with startups, tech community partners, venture firms, purpose driven partners, and SAP experts.

*Advancing Skill Development for Business Managers in Industry 4.0: Emerging Research and Opportunities* - Fazzin, Sara 2020-01-03

As technology grows more effective and refined, businesses and organizations are increasingly taking advantage by automating processes that were once presided over by human workers. As businesses explore the benefits of machine learning, research is necessary to examine the effects of the integration of technology to human workplaces. *Advancing Skill Development for Business Managers in Industry 4.0: Emerging Research and Opportunities* is an essential publication that examines Industry 4.0 and the important technological applications that revolutionize and disrupt modern organizations, such as artificial intelligence, machine learning, and programming languages, such as Python, to contextualize big data in business and frame the skills necessary for a high-performing modern workforce. The book provides a conceptual framework, analysis, and discussion of the issues concerning organizational behavior through the lens of organizational culture and emotions. Covering topics that include data-driven organizations, the digital business models, and leadership techniques, this book is ideally designed for managers, executives, IT specialists, computer engineers, data scientists, researchers, academicians, and students.

**SAP Cloud Platform Certification Guide** - Ivan Femia 2019

Developers! Make the grade with this SAP Cloud Platform certification study guide. From application development and integration to mobile services and the Internet of Things, this guide will review the key technical and functional knowledge you need to pass with flying colors. Explore test methodology, key concepts for each topic area, and practice questions and answers to solidify your knowledge. Your path to SAP Cloud Platform certification begins here! a. Test Structure Prepare with up-to-date information on each topic covered in the C\_CP\_13 exam, including application development, extension, and integration. b. Core Content Review major subject areas like architecture, the Cloud Foundry and Neo development environments, SAP Cloud Platform Internet of Things, and SAP Cloud Platform Mobile Services. Then dial in with important terminology, and key takeaways for each subject. c. Q&A After reviewing chapters, test your skills with in-depth questions and answers for each section and improve your test-taking skills. 1) C\_CP\_13 2) Architecture 3) Development, extension, and integration 4) SAP Cloud Platform Mobile Services 5) SAP Cloud Platform Internet of Things 6) SAP Cloud Platform SDK 7) SAP Cloud Platform SDK for the Neo environment 8) Cloud Foundry 9) Java 10) SAP HANA XS 11) SAPUI5

*Crowdsourced Data Management* - Adam Marcus 2015-11-18

*Crowdsourced Data Management: Industry and Academic Perspectives* aims to narrow the gap between academics and practitioners in this burgeoning field. It simultaneously introduces academics to real problems that practitioners encounter every day, and provides a survey of the state of the art for practitioners to incorporate into their designs.

*Machine Learning for Decision Makers* - Patanjali Kashyap 2018-01-04

Take a deep dive into the concepts of machine learning as they apply to contemporary business and management. You will learn how machine learning techniques are used to solve fundamental and complex problems in society and industry. *Machine Learning for Decision Makers* serves as an excellent resource for establishing the relationship of machine learning with IoT, big data, and cognitive and cloud computing to give you an overview of how these modern areas of computing relate to each other. This book introduces a collection of the most important concepts

of machine learning and sets them in context with other vital technologies that decision makers need to know about. These concepts span the process from envisioning the problem to applying machine-learning techniques to your particular situation. This discussion also provides an insight to help deploy the results to improve decision-making. The book uses case studies and jargon busting to help you grasp the theory of machine learning quickly. You'll soon gain the big picture of machine learning and how it fits with other cutting-edge IT services. This knowledge will give you confidence in your decisions for the future of your business. What You Will Learn Discover the machine learning, big data, and cloud and cognitive computing technology stack Gain insights into machine learning concepts and practices Understand business and enterprise decision-making using machine learning Absorb machine-learning best practices Who This Book Is For Managers tasked with making key decisions who want to learn how and when machine learning and related technologies can help them.

*Machine Learning with SAP* - Laboni Bhowmik 2020

"Work smarter with machine learning! Begin with core machine learning concepts-types of learning, algorithms, data preparation, and more. Then use SAP Leonardo, SAP HANA, and other technologies to create your own machine learning applications. Master the SAP HANA Predictive Analysis Library (PAL) and SAP Leonardo Machine Learning Foundation's functional and business services to train and deploy models. Finally, see machine learning in action in industries from manufacturing to banking"--

**Central Finance and SAP S/4HANA** - CARSTEN. AWAN HILKER (JAVAIID. DELVAT, JULIEN.) 2018-08-28

**Implementing Machine Learning with SAP S/4HANA** - Siar Sarferaz 2020

Put machine learning to work in SAP S/4HANA! Get started by reviewing your available tools and implementation options. Then, learn how to set up services, train models, and manage applications. Discover how machine learning is implemented in key lines of business, from finance to sales. With details on extensibility and related SAP Cloud Platform services, you'll find everything you need to make the most of machine learning! In this book, you'll learn about: a. Tools and Technologies Get to know the machine learning toolkit you can use to consume models: SAP HANA, SAP Cloud Platform, SAP Analytics Cloud, SAP Intelligent Robotic Process Automation, and more. b. Technical Implementation Perform the technical setup in SAP S/4HANA. Learn how to implement key services, train machine learning models, and manage applications, from data integration to user interface design. c. Business Implementation See how machine learning improves your lines of business. Explore machine learning in SAP S/4HANA business processes for finance, procurement, sales, inventory, and more. Highlights Include: 1) Predictive analytics 2) Predictive intelligence 3) Tools and technologies 4) Architecture 5) Embedded services 6) Technical implementation 7) Business implementation 8) Extensibility 9) SAP HANA 10) SAP Cloud Platform 11) SAP Analytics Cloud

**Machine Learning with SAP** - Laboni Bhowmik 2020

Work smarter with machine learning! Begin with core machine learning concepts--types of learning, algorithms, data preparation, and more. Then use SAP Data Intelligence, SAP HANA, and other technologies to create your own machine learning applications. Master the SAP HANA Predictive Analysis Library (PAL) and machine learning functional and business services to train and deploy models. Finally, see machine learning in action in industries from manufacturing to banking. a. Foundation Build your understanding of probability concepts and algorithms that drive machine learning. See how linear regression, classification, and cluster analysis algorithms work, before plugging them into your very own machine learning app! b. Development Follow step-by-step instructions to gather and prepare data, create machine learning models, train and fine-tune models, and deploy your final app, all using SAP HANA and SAP Data Intelligence. c. Platforms Use built-in SAP HANA libraries to create applications that consume machine learning algorithms or integrate with the R language for additional statistical capabilities. Work with the

SAP Leonardo functional services to customize and embed pre-trained models into applications or bring your own model with the help of Google TensorFlow. 1) Development 2) Retraining 3) Implementation 4) SAP Data Intelligence 5) SAP HANA predictive analysis library 6) SAP HANA extended machine learning library 7) SAP HANA automated predictive library 8) Google TensorFlow 9) Embedded machine learning 10) SAP Conversational AI 11) SAP Analytics Cloud Smart Predict

**Digitale Geschäftsmodelle - Band 2** - Stefan Meinhardt 2019-11-14

Digitale Geschäftsmodelle und die damit verbundenen Änderungen stellen Unternehmen vor vielfältige Herausforderungen. Daher geht das zweibändige Herausgeberwerk zentralen Fragen nach: Wie kann die Transformation im Unternehmen hin zu digitalen Geschäftsmodellen erfolgreich gelingen? Wie müssen digitale Geschäftsmodelle in die Unternehmensstrategie eingebettet sein? Was bedeutet eine Transformation hin zu digitalen Geschäftsmodellen für die IT-Systeme und Prozesse im Unternehmen? Welche Chancen und Risiken gibt es bei Digitalisierungsprojekten? Wie sehen praktische Anwendungsszenarien für digitale Geschäftsmodelle aus und wie werden diese umgesetzt? Diesen Herausforderungen haben sich die Autoren aus Wissenschaft und Praxis des vorliegenden Werkes in der Fachbuchreihe Edition HMD facettenreich gewidmet. Sie liefern mit ihren Beiträgen entsprechende Antworten, gepaart mit Konzepten, Lösungsvorschlägen und Fallbeispielen aus der Praxis. Denn: Eine ganzheitliche Digitalstrategie eröffnet nicht nur Chancen für neue digitale Erlösquellen, sondern verfolgt in erster Linie die digitale Transformation des bisherigen Geschäfts.

**The Essentials of Machine Learning in Finance and Accounting** - Mohammad Zoynul Abedin 2021-06-20

This book introduces machine learning in finance and illustrates how we can use computational tools in numerical finance in real-world context. These computational techniques are particularly useful in financial risk management, corporate bankruptcy prediction, stock price prediction, and portfolio management. The book also offers practical and managerial implications of financial and managerial decision support systems and how these systems capture vast amount of financial data. Business risk and uncertainty are two of the toughest challenges in the financial industry. This book will be a useful guide to the use of machine learning in forecasting, modeling, trading, risk management, economics, credit risk, and portfolio management.

**SAP HANA 2.0** - Denys Van Kempen 2019

Enter the fast-paced world of SAP HANA 2.0 with this introductory guide. Begin with an exploration of the technological backbone of SAP HANA as a database and platform. Then, step into key SAP HANA user roles and discover core capabilities for administration, application development, advanced analytics, security, data integration, and more. No matter how SAP HANA 2.0 fits into your business, this book is your starting point. In this book, you'll learn about: a. Technology Discover what makes an in-memory database platform. Learn about SAP HANA's journey from version 1.0 to 2.0, take a tour of your technology options, and walk through deployment scenarios and implementation requirements. b. Tools Unpack your SAP HANA toolkit. See essential tools in action, from SAP HANA cockpit and SAP HANA studio, to the SAP HANA Predictive Analytics Library and SAP HANA smart data integration. c. Key Roles Understand how to use SAP HANA as a developer, administrator, data scientist, data center architect, and more. Explore key tasks like backend programming with SQLScript, security setup with roles and authorizations, data integration with the SAP HANA Data Management Suite, and more. Highlights include: 1) Architecture 2) Administration 3) Application development 4) Analytics 5) Security 6) Data integration 7) Data architecture 8) Data center

**Künstliche Intelligenz** - Peter Buxmann 2018-09-03

Dieses Buch soll dabei helfen, die neuen Technologien und Anwendungspotenziale der künstlichen Intelligenz besser zu verstehen und einzuordnen. Neben einer ausführlichen und verständlichen Vermittlung grundlegender Kenntnisse und ökonomischer Effekte der künstlichen Intelligenz enthält es viele Anwendungsbeispiele bekannter Unternehmen. Konzerne

wie Amazon, IBM, Microsoft, SAP oder VW lassen die Leser in ihre KI-Labors schauen und erklären konkrete Projekte zu Themen, wie z. B. Chatbots, Quantencomputing, Gesichtserkennung, sprachbasierte Systeme oder den Einsatz von KI-Anwendungen in den Bereichen Marketing, Vertrieb, Finanzen, Personalwesen, Produktion, Gesundheit sowie Logistik. Das Buch richtet sich an Entscheider in Unternehmen, Studierende, Dozenten und alle, die sich ein Bild über die vielleicht wichtigste technologische Entwicklung in diesem Jahrhundert machen möchten.

**Geometric Perturbation Theory in Physics** - Stephen Malvern Omohundro 1986

This book which focusses on mechanics, waves and statistics, describes recent developments in the application of differential geometry, particularly symplectic geometry, to the foundations of broad areas of physics. Throughout the book, intuitive descriptions and diagrams are used to elucidate the mathematical theory. It develops a coordinate-free framework for perturbation theory and uses this to show how underlying symplectic structures arise from physical asymptotes. It describes a remarkable parity between classical mechanics which arises asymptotically from quantum mechanics and classical thermodynamics which arises asymptotically from statistical mechanics. Included here is a section with one hundred unanswered questions for further research.

**SAP S/4HANA Embedded Analytics** - Jürgen Butsmann 2021

Meet your BI needs with SAP S/4HANA embedded analytics! Explore the system architecture and data model and learn how to perform analytics on live transactional data. Business user? Walk step-by-step through SAP Smart Business KPIs, dashboards, and multidimensional reporting. Analytics specialist? Master the virtual data model and report creation. Jack of all trades? Create CDS views, apply custom fields and logic, and learn to integrate SAP S/4HANA with SAP Analytics Cloud. This is your complete guide to SAP S/4HANA embedded analytics! Highlights include: 1) Architecture 2) Virtual data model (VDM) 3) CDS views 4) SAP Fiori apps 5) SAP Smart Business 6) Key performance indicators (KPIs) 7) Dashboards 8) Reporting 9) Data warehousing 10) SAP Analytics Cloud 11) Machine learning

**Künstliche Intelligenz für Business Analytics** - Felix Weber 2020-06-15

Waren Methoden der Künstlichen Intelligenz (KI) bis vor wenigen Jahren noch ausschließlich ein Thema von wissenschaftlichen Diskussionen, so finden sie heute zunehmend Eingang in Produkte des täglichen Lebens. Gleichzeitig wächst die Menge der produzierten und verfügbaren Daten aufgrund der zunehmenden Digitalisierung, der Integration digitaler Mess- und Regelsysteme und des automatischen Austausches zwischen Geräten (Internet of Things). Dabei wird zukünftig der Einsatz von Business Intelligence (BI) und ein Blick in die Vergangenheit für die meisten Unternehmen nicht mehr ausreichen. Um in Zukunft im Wettbewerb bestehen zu können, wird vielmehr Business Analytics benötigt, also vorausschauende und prädiktive Analysen und automatisierte Entscheidungen. Die Nutzung der wachsenden Datenmengen ist dabei eine bedeutende Herausforderung und einen der wichtigsten Bereiche der Datenanalyse stellen Methoden der Künstliche Intelligenz dar. Das Buch führt in komprimierter Form in die essenziellen Aspekte des Einsatzes von Methoden der Künstlichen Intelligenz für Business Analytics ein, stellt das Maschinelle Lernen und die wichtigsten Algorithmen in verständlicher Form anhand des Business Analytics Technologieframeworks vor und zeigt Anwendungsszenarien aus verschiedenen Branchen. Dazu liefert es mit dem Business Analytics Model for Artificial Intelligence ein Referenzvorgehensmodell zur Strukturierung von BA- und KI-Projekten im Unternehmen.

**SAP S/4HANA** - Axel Baumgartl 2021

"Interested in what SAP S/4HANA has to offer? Find out with this big-picture guide! Take a tour of SAP S/4HANA functionality for your key lines of business: finance, manufacturing, supply chain, sales, and more. Preview SAP S/4HANA's architecture, and discover your options for reporting, extensions, and adoption. With insights into the latest intelligent technologies, this is your all-in-one SAP S/4HANA starting point!"--

**Hadoop in Action** - Chuck Lam 2010-11-30

Hadoop in Action teaches readers how to use Hadoop and write MapReduce programs. The intended readers are programmers, architects, and project managers who have to process large amounts of data offline. Hadoop in Action will lead the reader from obtaining a copy of Hadoop to setting it up in a cluster and writing data analytic programs. The book begins by making the basic idea of Hadoop and MapReduce easier to grasp by applying the default Hadoop installation to a few easy-to-follow tasks, such as analyzing changes in word frequency across a body of documents. The book continues through the basic concepts of MapReduce applications developed using Hadoop, including a close look at framework components, use of Hadoop for a variety of data analysis tasks, and numerous examples of Hadoop in action. Hadoop in Action will explain how to use Hadoop and present design patterns and practices of programming MapReduce. MapReduce is a complex idea both conceptually and in its implementation, and Hadoop users are challenged to learn all the knobs and levers for running Hadoop. This book takes you beyond the mechanics of running Hadoop, teaching you to write meaningful programs in a MapReduce framework. This book assumes the reader will have a basic familiarity with Java, as most code examples will be written in Java. Familiarity with basic statistical concepts (e.g. histogram, correlation) will help the reader appreciate the more advanced data processing examples. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

**Practical Guide to SAP HANA and Big Data Analytics** - Dominique Alfermann 2018-12-20

In this book written for SAP BI, big data, and IT architects, the authors expertly provide clear recommendations for building modern analytics architectures running on SAP HANA technologies. Explore integration with big data frameworks and predictive analytics components. Obtain the tools you need to assess possible architecture scenarios and get guidelines for choosing the best option for your organization. Know your options for on-premise, in the cloud, and hybrid solutions. Readers will be guided through SAP BW/4HANA and SAP HANA native data warehouse scenarios, as well as field-tested integration options with big data platforms. Explore migration options and architecture best practices. Consider organizational and procedural changes resulting from the move to a new, up-to-date analytics architecture that supports your data-driven or data-informed organization. By using practical examples, tips, and screenshots, this book explores: - SAP HANA and SAP BW/4HANA architecture concepts - Predictive Analytics and Big Data component integration - Recommendations for a sustainable, future-proof analytics solutions - Organizational impact and change management

**SAP Leonardo** - Pierre Erasmus 2019

This guide to SAP Leonardo shows you how new technologies from machine learning to blockchain intersect with existing processes to transform your business. --

**Internet of Things with SAP** - Sijesh Manohar 2020

Are you ready to build smart applications? See how to develop IoT apps and manage devices with SAP Leonardo and SAP Cloud Platform. Then, perform real-time data processing and analysis with SAP Edge Services. Walk through the configuration steps for edge scenarios, and learn how SAP partner solutions can be used in conjunction with SAP Leonardo. Explore relevant use cases, and envision what IoT can bring to your business! In this book, you'll learn about: a. Internet of Things Technologies Discover the solutions SAP provides for IoT. See how SAP Leonardo Internet of Things, SAP Edge Services, and SAP Cloud Platform Internet of Things support IoT applications during development, implementation, and analysis. b. Application Development Develop IoT applications, step by step. Learn how to model digital twins using the

Thing Modeler, configure and onboard devices, define rules and actions, export IoT data to SAP Analytics Cloud, and more. c. Business Use Cases See IoT in action with practical use cases. Consider challenges and best practices for SAP Leonardo Internet of Things and SAP Edge Services so that your business is prepared to make the most of the IoT. Highlights Include: 1) SAP Leonardo Internet of Things 2) SAP Edge Services 3) SAP Cloud Platform Internet of Things 4) Application modeling 5) Digital twins 6) Device connectivity 7) Rules and actions 8) Analytics 9) Configuration 10) Interoperability 11) Use cases

**El empleo en la era digital** - AA.VV. 2020-06-26

¿En qué piensan los políticos cuando hablan de crecimiento y creación de trabajo? ¿Cómo pasar de una economía de especulación, deslocalización productiva y guerra a una economía basada en el conocimiento, para procurar un desarrollo global sostenible y humano? A estos interrogantes da respuesta el presente texto en el que un grupo de expertos procedentes de distintas disciplinas, y reunidos bajo el paraguas del colectivo Cibercotizante, nos describe el modo en que la economía digital abre un nuevo modelo que afecta a la casi totalidad de las actividades y conlleva, de modo urgente, importantes reformas en las relaciones laborales y cambios en el mercado de trabajo. La robotización y el empleo son protagonistas destacados en la economía digital. Diversos trabajos publicados por entidades de prestigio, contienen datos y predicciones que nos sitúan en un escenario más que preocupante en cuanto a la evolución del mercado laboral. Estas páginas repasan los problemas que preocupan a la sociedad. El talento senior, la formación como motor de la recapacitación profesional de los trabajadores, la inteligencia artificial y el machine learning, las amenazas de los cibercriminales, los comportamientos éticos en el mundo digital, las situaciones colaterales de la implantación de una renta básica o los nuevos retos digitales como el teletrabajo y la desconexión digital son analizados con el fin de ofrecer unos conocimientos sólidos para iniciar ese gran debate imprescindible para entender cómo será la década que hemos empezado con tan graves amenazas como la crisis derivada del COVID-19. «Nos hallamos frente a un nuevo concepto de trabajo, a una mecanización y robotización imparable, que requiere que sea la máquina la que esté al servicio de la humanidad y no la humanidad sometida a la máquina. Este nuevo concepto de trabajo requiere una educación que, desde las primeras etapas, forme plena conciencia de la igual dignidad de todos los seres humanos, sea cual sea el género, el color de la piel, la edad, la ideología, la creencia...» (Federico Mayor Zaragoza)

**SAP API Management** - Carsten Bönner 2019

Unpack your API toolkit with this guide to SAP API Management. Learn how to use the API Designer to create enterprise APIs and discover how to manage their lifecycle. Walk through key processes that optimize your APIs and keep them running smoothly: traffic management, mediation, security, and monetization. Get expert guidance on building applications, generating integration flows, and running analytics. Master API management from end to end In this book, you'll learn about: a. API Lifecycle Walk through API management from end to end: design, management, consumption, and more. Understand how components such as the Developer Portal and API Gateway support the API lifecycle. b. Key Processes Make the most of your APIs. See how to monitor traffic; perform message transformation, parsing, and validation; handle API security threats; and monetize API products. c. Consumption and Analytics Get your APIs working for you. Learn how to consume APIs in SAP Fiori apps, mobile apps built with SAP Mobile Services, and more. Then, analyze API consumption to gain insight into usage trends and performance. Highlights Include: 1) Architecture 2) End-to-end lifecycle 3) Design and development 4) Traffic management 5) Mediation 6) Security 7) Monetization 8) Consumption 9) Enterprise integration 10) Analytics 11) SAP API Business Hub