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BYLHRP - SIDNEY BRAUN

Implement machine learning and deep learning methodologies to build smart, cognitive AI projects using Python Key Feature-SA go-to guide to help you master AI algorithms and concepts8 real-world projects tackling different challenges in healthcare, e-commerce, and surveillanceUse TensorFlow, Keras, and other Python libraries to implement smart AI applicationsBook Description This book will be a perfect companion if you want to build insightful projects from leading AI domains using Python. The book covers detailed implementation of projects from all the core disciplines of AI. We start by covering the basics of how to create smart systems using

machine learning and deep learning techniques. You will assimilate various neural network architectures such as CNN, RNN, LSTM, to solve critical new world challenges. You will learn to train a model to detect diabetic retinopathy conditions in the human eye and create an intelligent system for performing a video-to-text translation. You will use the transfer learning technique in the healthcare domain and implement style transfer using GANs. Later you will learn to build AI-based recommendation systems, a mobile app for sentiment analysis and a powerful chatbot for carrying customer services. You will implement AI techniques in the cybersecurity domain to generate Captchas. Later you will train and build autonomous vehicles to

self-drive using reinforcement learning. You will be using libraries from the Python ecosystem such as TensorFlow, Keras and more to bring the core aspects of machine learning, deep learning, and AI. By the end of this book, you will be skilled to build your own smart models for tackling any kind of AI problems without any hassle. What you will learnBuild an intelligent machine translation system using seq-2-seq neural translation machinesCreate AI applications using GAN and deploy smart mobile apps using TensorFlowTranslate videos into text using CNN and RNNImplement smart AI Chatbots, and integrate and extend them in several domainsCreate smart reinforcement, learning-based applications using Q-LearningBreak and gener-

ate CAPTCHA using Deep Learning and Adversarial Learning Who this book is for This book is intended for data scientists, machine learning professionals, and deep learning practitioners who are ready to extend their knowledge and potential in AI. If you want to build real-life smart systems to play a crucial role in every complex domain, then this book is what you need. Knowledge of Python programming and a familiarity with basic machine learning and deep learning concepts are expected to help you get the most out of the book

This book provides up-to-date information on bioinformatics tools for the discovery and development of new drug molecules. It discusses a range of computational applications, including three-dimensional modeling of protein structures, protein-ligand docking, and molecular dynamics simulation of protein-ligand complexes for identifying desirable drug candidates. It also explores computational approaches for identifying potential drug targets and for pharmacophore modeling. Moreover, it presents structure- and ligand-based drug design tools to optimize known drugs and guide the design of new molecules. The book also describes methods for identify-

ing small-molecule binding pockets in proteins, and summarizes the databases used to explore the essential properties of drugs, drug-like small molecules and their targets. In addition, the book highlights various tools to predict the absorption, distribution, metabolism, excretion (ADME) and toxicity (T) of potential drug candidates. Lastly, it reviews in silico tools that can facilitate vaccine design and discusses their limitations.

The open source PostgreSQL database is soaring in popularity, as thousands of database and web professionals discover its powerful features, transaction support, performance, and industrial-strength scalability. In this book, a founding member of the PostgreSQL development team introduces everything you need to know to succeed with PostgreSQL, from basic SQL commands through database administration and optimization. PostgreSQL assumes no previous database expertise: it establishes a firm foundation of basic concepts and commands before turning to PostgreSQL's advanced, innovative capabilities. Bruce Momjian walks readers step-by-step from their first database queries through the complex queries needed to solve real--

world problems. He presents proper query syntax, then explores the value and use of each key SQL commands in working applications. Learn to manipulate and update databases, customize queries, work with SQL aggregates, use joins, combine SELECTs with subqueries, work with triggers and transactions, import and export data, use PostgreSQL query tools, and more. Discover PostgreSQL techniques for server-side programming and multi-user control, and master PostgreSQL's interfaces to C, C++, ODBC, JDBC, Perl, and Tcl/TK. You'll also find detailed coverage of PostgreSQL administration, including backups, troubleshooting, and access configuration.

This book offers a practical reference guide to soft rock mechanics for engineers and scientists. Written by recognized experts, it will benefit professionals, contractors, academics, researchers and students working on rock engineering projects in the fields of civil engineering, mining and construction engineering. Soft Rock Mechanics and Engineering covers a specific subject of great relevance in Rock Mechanics - and one that is directly connected to the design of geotechnical structures under difficult ground conditions. The book

addresses practical issues related to the geomechanical properties of these types of rock masses and their characterization, while also discussing advances regarding in situ investigation, safety, and monitoring of geotechnical structures in soft rocks. Lastly, it presents important case histories involving tunnelling, dam foundations, coal and open pit mines and landslides.

Friedman offers new and updated research on the Nusayr - Alaw sect, today a leading group in Syria, covering a variety of aspects and focusing on the Middle Ages. A century after Dussaud's "Histoire et religion des Nosair s" (1900), he reviews the history and religion of the sect in the light of old documents used by orientalists in the nineteenth century, documents that became available in the twentieth century, and later sources of the Nusayr - Alaw sect published most recently in Lebanon. Also studied in depth for the first time is the question of the identity of the sect through the Alaw -Sunn -Sh triangle.

A DNA barcode in its simplest definition is one or more short gene sequences taken from a standardized portion of the genome

that is used to identify species through reference to DNA sequence libraries or databases. In DNA Barcodes: Methods and Protocols expert researchers in the field detail many of the methods which are now commonly used with DNA barcodes. These methods include the latest information on techniques for generating, applying, and analyzing DNA barcodes across the Tree of Life including animals, fungi, protists, algae, and plants. Written in the highly successful Methods in Molecular Biology™ series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory. Thorough and intuitive, DNA Barcodes: Methods and Protocols aids scientists in continuing to study methods from wet-lab protocols, statistical, and ecological analyses along with guides to future, large-scale collections campaigns.

This book draws on historical and cross-disciplinary studies to critically examine penal practices in Scandinavia. The Nordic countries are often hailed by international observers as 'model societies', with egalitarian welfare policies, low rates of poverty, humane social policies and human

rights oriented internal agendas. This book, however, paints a much more nuanced picture of the welfare policies, ideologies and social control in strong centralistic states. Based on extensive new empirical data, leading Nordic and international scholars discuss the relationship between prison conditions in Scandinavia and Scandinavian social policy more generally, and argue that it is not always liberating and constructive to be embraced by a powerful welfare state. This book is essential reading for researchers of state punishment in Scandinavia, and it is highly relevant for anyone interested in the 'Nordic Model' of social policy.

Examines interrelations between flood management, flooding, and environmental change, for advanced students, researchers, and practitioners.

Evil schemes are afoot in Cauldron, a metropolis of merchants built into the caldera of a long-dormant volcano. Driven by the dreams of an insane demon prince, bizarre cultists known as the Cagewrights scheme from ancient tunnels beneath the volcano, stoking it once more to terrible life. To prevent their agenda, your band of

adventurers must brave haunted jungle ruins, slay mighty dragons, and bind themselves to a layer of the infinite Abyss. Will their swords and spells be enough to save the Shackled City? From new DBD publisher Paizo Publishing!

Enabling power: Health and Safety at Work etc. Act 1974, ss. 15 (1) (1B) (2) (3) (a) (4) (5), 18 (2) (za), 43 (2) (4), sch. 3, paras 6, 8 (1), 11, 13 (2), 14, 15, 16, 20. Issued: 02.04.2019. Sifted: -. Made: 26.03.2019. Laid: 27.03.2019. Coming into force: 22.05.2019. Effect: S.I. 1986/1078; 1989/1796; 1998/494; 2005/2042; 2006/1379, 2988 (W. 277) & S.S.I. 2005/494; 2007/179; 2008/2867; 2012/1916; 2015/462; 2016/253; 2017/1075; 2018/482 amended & S.I. 2001/2975 revoked. Territorial extent & classification: E/W/S. General

Identify, capture and resolve common issues faced by Red Hat Enterprise Linux administrators using best practices and advanced troubleshooting techniques About This Book Develop a strong understanding of the base tools available within Red Hat Enterprise Linux (RHEL) and how to utilize these tools to troubleshoot and resolve real-world issues Gain hidden tips and tech-

niques to help you quickly detect the reason for poor network/storage performance Troubleshoot your RHEL to isolate problems using this example-oriented guide full of real-world solutions Who This Book Is For If you have a basic knowledge of Linux from administration or consultant experience and wish to add to your Red Hat Enterprise Linux troubleshooting skills, then this book is ideal for you. The ability to navigate and use basic Linux commands is expected. What You Will Learn Identify issues that need rapid resolution against long term root cause analysis Discover commands for testing network connectivity such as telnet, netstat, ping, ip and curl Spot performance issues with commands such as top, ps, free, iostat, and vmstat Use tcpdump for traffic analysis Repair a degraded file system and rebuild a software raid Identify and troubleshoot hardware issues using dmesg Troubleshoot custom applications with strace and knowledge of Linux resource limitations In Detail Red Hat Enterprise Linux is an operating system that allows you to modernize your infrastructure, boost efficiency through virtualization, and finally prepare your data center for an open, hy-

brid cloud IT architecture. It provides the stability to take on today's challenges and the flexibility to adapt to tomorrow's demands. In this book, you begin with simple troubleshooting best practices and get an overview of the Linux commands used for troubleshooting. The book will cover the troubleshooting methods for web applications and services such as Apache and MySQL. Then, you will learn to identify system performance bottlenecks and troubleshoot network issues; all while learning about vital troubleshooting steps such as understanding the problem statement, establishing a hypothesis, and understanding trial, error, and documentation. Next, the book will show you how to capture and analyze network traffic, use advanced system troubleshooting tools such as strace, tcpdump & dmesg, and discover common issues with system defaults. Finally, the book will take you through a detailed root cause analysis of an unexpected reboot where you will learn to recover a downed system. Style and approach This is an easy-to-follow guide packed with examples of real-world core Linux concepts. All the topics are presented in detail while you're performing the actual troubleshoot-

ing steps.

Operational Readiness Assessment

This code of practice sets out the statutory requirements for materials, performance and standards of workmanship for use in association with street works by utilities and other undertakers with apparatus in the street. It applies in England only and comes into effect on 1 October 2010, when it replaces the 2nd edition (2002, ISBN 9780115525384).

Over the last decade, a policy revolution has been underway in the developing and emerging world. Country after country is systematically providing non-contributory transfers to poor and vulnerable people, in order to protect them against economic shocks and to enable them to invest in themselves and their children. Social safety nets or social transfers, as these are called, have spread rapidly from their early prominence in the middle-income countries of Latin America and Europe increasingly to nations in Africa, Asia and the Middle East - and today, over 130 developing countries have made investments in social safety nets an important pillar of economic development policies. The statistics and

analysis in *The State of Social Safety Nets 2015* capture this revolution, and reveal it in many dimensions at the country, regional, and international levels. This latest edition of a periodic series brings together a large body of data that was not previously available, drawing on the World Bank's ASPIRE database and other sources. Why have so many countries made a firm commitment to incorporate social safety nets as part of their social and economic policy architecture? Because social safety nets work. This report also reports on the rigorous evidence that demonstrates their impact, and also points the way to making them even more efficient and effective at meeting their development goals. This latest edition of a periodic series brings together a large body of data that was not previously available, drawing on the World Bank's ASPIRE database and other sources to examine trends in coverage, spending, and safety nets program performance.

The Gabonese economy was gradually recovering from the 2014 oil price shock when it was hit by the Covid-19 pandemic. Decisive confinement measures have helped save lives, but the pandemic and the fall in oil prices have severely hit the

economy, increasing unemployment and poverty. With a weak economy and increased COVID-19 related spending, the fiscal deficit has widened, with a sharp increase in public debt. Emergency financing from the IMF through the Rapid Financing Instrument (US\$299.61 million) helped meet urgent balance of payment needs in 2020. Growth is expected to resume in 2021 but the pandemic has made the economic outlook very challenging and generated sizable financing needs over the medium term.

PESA provides a range of information about public spending, using two Treasury-defined frameworks, so that PESA largely contains different presentations of two date sets. Chapters cover: departmental budgets; economic analyses of budgets; changes in departmental budgets; trends in public sector expenditure; public sector expenditure by function, sub-function and economic category; central government own expenditure; local government financing and expenditure; public corporations; public expenditure by country, region and function; public expenditure by country and sub-function. Various annexes supplement the analysis, including:

sources, data quality and conventions; population numbers and GDP inflators.

Abstract: To examine the impact of Rwanda's 1994 genocide on children's schooling, the authors combine two cross-sectional household surveys collected before and after the genocide. The identification strategy uses pre-war data to control for an age group's baseline schooling and exploits variation across provinces in the intensity of killings and which children's cohorts were school-aged when exposed to the war. The findings show a strong negative impact of the genocide on schooling, with exposed children completing one-half year less education representing an 18.3 percent decline. The effect is robust to including control variables, alternative sources for genocide intensity, and an instrumental variables strategy.

This book integrates the latest global developments in forestry science and practice and their relevance for the sustainable management of tropical forests. The influence of social dimensions on the development of silvicultural concepts is another spotlight. Ecology and silvicultural options form all tropical continents, and forest for-

mations from dry to moist forests and from lowland to mountain forests are covered. Review chapters which guide readers through this complex subject integrate numerous illustrative and quantitative case studies by experts from all over the world. On the basis of a cross-sectional evaluation of the case studies presented, the authors put forward possible silvicultural contributions towards sustainability in a changing world. The book is addressed to a broad readership from forestry and environmental disciplines.

The fifth edition of *Modern Database Management* has been updated to reflect the most current database content available. It provides sound, clear, and current coverage of the concepts, skills, and issues needed to cope with an expanding organizational resource. While sufficient technical detail is provided, the emphasis remains on management and implementation issues pertinent in a business information systems curriculum.

This book provides comprehensive insights into the field of duck production and management. It presents a complete overview of different aspects of duck production with particular emphasis on rearing sys-

tems. The book reviews current knowledge on the anatomy, physiology, genetics, breeding, nutrition, incubation, and hatching practices of ducks. It further discusses the common diseases of duck, their treatment regime, and prevention strategies. The book additionally examines all aspects of the global duck industry, the constraints, and the recommendations. It also explores nutrient requirements and feed evaluation for duck and evaluates nutrition's influence on the gut microbiome. Towards the end, the book presents the latest genomic applications, including high throughput sequencing and various bioinformatics tools in duck production. This book serves as an essential resource for duck industry practitioners, researchers, and students.

Tropical Deep-Sea Benthos is a series dedicated to the inventory and description of the deep-sea fauna of the world, with special emphasis on their most extensive--but remote and least-explored--habitats: the Indo-West Pacific. Growing out of marine expeditions undertaken by the French National Museum of Natural History and the Institut de Recherche pour le Développement,

the series continues to present many new, strange, and sometimes colorful invertebrates. The present volume presents results from recent expeditions within the New Caledonian Exclusive Economic Zone, reporting ninety-eight species (including fifty-seven new species) of corals from the Stylasteridae family and one new calcified species of hydrozoa from the family Hydactiniidae. Including numerous seamounts, submarine ridges, and small islands, New Caledonia's deep-sea benthos are ideal habitat for stylasterids, making it the most species-rich marine region in the world for this taxon.

Performance-based financing (PBF) is a comprehensive health systems approach that is expanding in regions around the world. Based on first-hand experience of PBF pioneers, this toolkit provides the state-of-art knowledge, methods, and tools for setting up an effective PBF approach in lower-and middle income settings.

This volume presents advanced synthesis techniques for fabricating Perovskite materials with enhanced properties for applications such as energy storage devices, photovoltaics, electrocatalysis, electronic devices, photocatalysts, sensing, and biomed-

ical instruments. The book attempts to fill a gap in the published literature and provide a detailed reference on Perovskite materials. This book will be of use to graduate students and academic and industrial researchers in the fields of solid-state chemistry, physics, materials science, and chemical engineering.

The problems related to the process of industrialisation such as biodiversity depletion, climate change and a worsening of health and living conditions, especially but not only in developing countries, intensify. Therefore, there is an increasing need to search for integrated solutions to make development more sustainable. The United Nations has acknowledged the problem and approved the "2030 Agenda for Sustainable Development". On 1st January 2016, the 17 Sustainable Development Goals (SDGs) of the Agenda officially came into force. These goals cover the three dimensions of sustainable development: economic growth, social inclusion and environmental protection. The Encyclopedia of the UN Sustainable Development Goals comprehensively addresses the SDGs in an integrated way. The Encyclopedia encompasses 17 volumes, each one devoted to

one of the 17 SDGs. This volume addresses SDG 11, namely "Make cities and human settlements inclusive, safe, resilient and sustainable" and contains the description of a range of terms, which allows a better understanding and fosters knowledge. This book presents a set of papers on the state of the art of knowledge and practices about the numerous challenges for cities, solutions and opportunities for the future. Concretely, the defined targets are: Ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums Provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons Enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries Strengthen efforts to protect and safeguard the world's cultural and natural heritage Significantly reduce the number of deaths and the number of people affected and substantially decrease

the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations Reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management Provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development planning Substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015–2030, holistic disaster risk management at all levels Support least developed countries, including through financial and technical assistance, in building sustainable and resilient build-

ings utilizing local materials Editorial Board Samuel Borges Barbosa, Luciana Londero Brandli, Elisa Conticelli, Erin A. Hopkins, Olga Kuznetsova, Astrid Skjerven, Hari Srinivas

Presents by subject the same titles that are listed by author and title in Forthcoming books.

If the body of knowledge of a profession is a living landscape of practice, then our personal experience of learning can be thought of as a journey through this landscape. Within Learning in Landscapes of Practice, this metaphor is further developed in order to start an important conversation about the nature of practice knowledge, identity and the experience of practitioners and their learning. In doing so, this book is a pioneering and timely exploration of the future of professional development and higher education. The book combines a strong theoretical perspective grounded in social learning theories with stories from a broad range of contributors who occupy different locations in their own landscapes of practice. These narratives locate the book within different contemporary concerns such as social media, multi-

-agency, multi-disciplinary and multi-national partnerships, and the integration of academic study and workplace practice. Both scholarly, in the sense that it builds on prior research to extend and locate the concept of landscapes of practice, and practical because of the way in which it draws on multiple voices from different landscapes. Learning in Landscapes of Practice will be of particular relevance to people concerned with the design of professional or vocational learning. It will also be a valuable resource for students engaged in higher education courses with work-based elements.

Praise for Management Accounting Best Practices "It doesn't matter where you start reading, even the most experienced accountant will find some useful ideas." —Alan H. Boycott, Chartered Accountant, Düsseldorf, Germany "This is one of the best books about new accounting practices in practical accounting. I highly recommend this book for accountants of all levels." —Andrei Ralko, Controller, International Center for Transitional Justice, New York, NY The only practices worth following are the best practices... Destined to become an essential desktop tool in helping

professionals make management decisions in accounting, Management Accounting Best Practices introduces over 100 best practices from accounting expert Steven Bragg for questions such as: How does the system of interlocking budgets work? What does a sample budget look like? What best practices can I apply to the budgeting process? How can I integrate the budget into the corporate control system? How do throughput concepts impact the budget? Now, when members of your management team come calling with questions, you'll have the answers at your fingertips, in Management Accounting Best Practices. It's the easy-to-use, daily reference manual for every accountant in a management position.

An illuminating collection of work by members of the Religious Society of Friends. Covering nearly three centuries of religious development, this comprehensive anthology brings together writings from prominent Friends that illustrate the development of Quakerism, show the nature of Quaker spiritual life, discuss Quaker contributions to European and American civilization, and introduce the diverse community of Friends, some of whom are little remem-

bered even among Quakers today. It gives a balanced overview of Quaker history, spanning the globe from its origins to missionary work, and explores daily life, beliefs, perspectives, movements within the community, and activism throughout the world. It is an exceptional contribution to contemporary understanding of religious thought. For more than seventy years, Penguin has been the leading publisher of classic literature in the English-speaking world. With more than 1,700 titles, Penguin Classics represents a global bookshelf of the best works throughout history and across genres and disciplines. Readers trust the series to provide authoritative texts enhanced by introductions and notes by distinguished scholars and contemporary authors, as well as up-to-date translations by award-winning translators.

Dated February 2002. Customers also need the main TD 9/93 (1993) (ISBN 0115513221)

This is the first comprehensive volume to look at the importance of short-chain fatty acids in digestion, the function of the large intestine and their role in human health. Short-chain fatty acids are the major prod-

uct of bacterial fermentation of dietary carbohydrates in the human and animal large intestine. They represent the major end products of digestive processes occurring in the caecum and large intestine. As such, they form an important dietary component and it is increasingly recognised that they may have a significant role in protecting against large bowel cancer and in metabolism. Prepared by an international team of contributors who are at the forefront of this area of research, this volume will be an essential source of reference for gastroenterologists, nutritionists and others active in this area.

Right-wing populist parties are thriving throughout Europe. With few exceptions, political systems have seen such parties make significant electoral gains and shape the national political discourse across the continent. In recent years, many populist parties have undergone leadership changes and other evolutionary challenges to which they adapted well, often contrary to expectations. This timely collection is devoted to understanding how Western European right-wing populist parties organize themselves. Without understanding the role of the organizational dynamics, we fail

to understand how populist parties adapt over time and thus endure. Providing a systematic and comprehensive analysis of organizational issues of populist parties over time, *Understanding Populist Party Organi-*

sation explores a range of political parties in Western Europe, examining their internal dynamics and questioning whether it is possible to discern or construct a general “populist” party typology of organization and representation. The book includes

chapters on the Austrian Freedom Party, the Vlaams Belang, the Swiss People’s Party, the Lega Nord, the Front National, the Norwegian Progress Party, and the Sweden Democrats.