Deep Learning With Python Francois Chollet Amazon Com

Practical Generative AI with ChatGPTSucceeding with AIDigital Ecosystems: Interconnecting Advanced Networks with AI ApplicationsDeep Learning with Python, Second EditionMedical Image Computing and Computer Assisted Intervention - MICCAI 2018Harnessing the Power of FailureApplication of Communication Computational Intelligence and LearningPeace WorksInformation SecurityDeep Learning with PythonDeep Learning with R, Second EditionAutomated Speaking AssessmentMachine Learning for Societal Improvement, Modernization, and ProgressDevelopment Challenges, South-South Solutions: April 2009 IssueDeepFakesDesign and Development of Emerging Chatbot TechnologyIntelligent Human Computer InteractionHandbook of Research on Artificial Intelligence in Human Resource ManagementHuman Aspects of IT for the Aged Population. Social Media, Games and Assistive EnvironmentsAdvances in Neural Computation, Machine Learning, and Cognitive Research IIIMachine Learning, Deep Learning and AI for CybersecurityBuilding Transformer Models with AttentionThe Artificial Intelligence ImperativeKeras to KubernetesHands-On Machine Learning with Scikit-Learn, Keras, and TensorFlowBrazil on the Global StageSoft Computing for Problem SolvingBeyond TearsEcology of Tropical Cities, Volume IProceedings of the Future Technologies Conference (FTC) 2019Perspectives in Business Informatics ResearchComputer Vision - ECCV 2020Development Challenges, South-South Solutions: October 2007 IssueIntelligent Virtual AgentsDevelopment Challenges, South-South Solutions: May 2009 IssueThe 9 Pitfalls of Data ScienceApplied Machine Learning and Multi-Criteria Decision-Making in Healthcare13th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2020)Artificial Intelligence for HealthcareDeep Learning on Embedded Systems Valentina Alto Veljko Krunic Andriy Luntovskyy Francois Chollet Alejandro F. Frangi John Steven Newman Sangeeta Jadhav Frederick D. Barton Zhiqiang Lin Francois Chollet Francois Chollet Klaus Zechner Pendyala, Vishnu S. David South, Writer Loveleen Gaur Darwish, Dina Uma Shanker Tiwary Strohmeier, Stefan Jia Zhou Boris Kryzhanovsky Mark Stamp Jason Brownlee Anastassia Lauterbach Dattaraj Rao Aurélien Géron Oliver Stuenkel Jagdish Chand Bansal Terry Umphenour Fabio Angeoletto Kohei Arai Václav Šepa Andrea Vedaldi David South, Writer Timothy Bickmore David South, Writer Gary Smith Ilker Ozsahin Álvaro Herrero Rishabha Malviya Tariq M. Arif

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DeepFakes Design and Development of Emerging Chatbot Technology Intelligent Human Computer Interaction Handbook of Research on Artificial Intelligence in Human Resource Management Human Aspects of IT for the Aged Population. Social Media, Games and Assistive Environments Advances in Neural Computation, Machine Learning, and Cognitive Research III Machine Learning, Deep Learning and AI for Cybersecurity Building Transformer Models with Attention The Artificial Intelligence Imperative Keras to Kubernetes Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow Brazil on the Global Stage Soft Computing for Problem Solving Beyond Tears Ecology of Tropical Cities, Volume I Proceedings of the Future Technologies Conference (FTC) 2019 Perspectives in Business Informatics Research Computer Vision - ECCV 2020 Development Challenges, South-South Solutions: October 2007 Issue Intelligent Virtual Agents Development Challenges, South-South Solutions: May 2009 Issue The 9 Pitfalls of Data Science Applied Machine Learning and Multi-Criteria Decision-Making in Healthcare 13th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2020) Artificial Intelligence for Healthcare Deep Learning on Embedded Systems *Valentina Alto Veljko Krunic Andriy Luntovskyy Francois Chollet Alejandro F. Frangi John Steven Newman Sangeeta Jadhav Frederick D. Barton Zhiqiang Lin Francois Chollet Francois Chollet Klaus Zechner Pendyala, Vishnu S. David South, Writer Loveleen Gaur Darwish, Dina Uma Shanker Tiwary Strohmeier, Stefan Jia Zhou Boris Kryzhanovsky Mark Stamp Jason Brownlee Anastassia Lauterbach Dattaraj Rao Aurⵏlien Gⵏron Oliver Stuenkel Jagdish Chand Bansal Terry Umphenour Fabio Angeoletto Kohei Arai Vⵏclav ⵏepa Andrea Vedaldi David South, Writer Timothy Bickmore David South, Writer Gary Smith Ilker Ozsahin ⵏlvaro Herrero Rishabha Malviya Tariq M. Arif*

transform your professional world with chatgpt and openai master prompt design to revolutionize development marketing research and enterprise implementation key features turn chatgpt into your companion for marketing research personal productivity art and coding learn prompt engineering techniques that deliver consistent relevant and ethical ai powered results build custom gpts and assistants tailored to your specific business needs and workflows purchase of the print or kindle book includes a free pdf ebook book descriptionpractical generative ai with chatgpt is your hands on guide to unlocking the full potential of chatgpt from building ai assistants and mastering prompt engineering to analyzing documents and images and even generating code this book equips you with the skills to integrate generative ai into your workflow written by a technical architect specializing in ai and intelligent applications this book provides the tools and knowledge you need to streamline tasks enhance productivity and create intelligent solutions you ll learn how to craft precise prompts leverage chatgpt for daily efficiency and develop custom ai assistants tailored to your needs the chapters show you how to use chatgpt s multimodal capabilities to generate images with dall e and even transform images into code this chatgpt book goes beyond basic interactions by showing you how to design custom gpts and integrate openai s apis into your applications you ll explore how businesses use openai models from building ai applications including semantic search to creating an ai roadmap each chapter is packed with practical examples ensuring you can apply the techniques right away by the end of this book you ll be well

equipped to leverage openai s technology for competitive advantage what you will learn explore the fundamentals of generative ai and gpt models master prompt engineering to consistently get relevant and reliable outputs from chatgpt develop marketing strategies and conduct meaningful a b testing with ai assistance boost your coding with code generation review and optimization enhance research with real time knowledge mining enhance your visual creativity with image generation image understanding and style transfer design custom gpts and assistants tailored to specific business functions discover how enterprises are leveraging large language models for their ai apps who this book is for this book is ideal for business professionals developers marketers researchers and decision makers who want to leverage ai to enhance productivity no advanced technical background is required for the foundational sections making the content accessible to beginners while later chapters provide depth for technical professionals implementing enterprise solutions if you re seeking practical applications of generative ai in business contexts you ll find immediate actionable value in this book

summary companies small and large are initiating ai projects investing vast sums of money on software developers and data scientists too often these ai projects focus on technology at the expense of actionable or tangible business results resulting in scattershot results and wasted investment succeeding with ai sets out a blueprint for ai projects to ensure they are predictable successful and profitable it s filled with practical techniques for running data science programs that ensure they re cost effective and focused on the right business goals purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology succeeding with ai requires talent tools and money so why do many well funded state of the art projects fail to deliver meaningful business value because talent tools and money aren t enough you also need to know how to ask the right questions in this unique book ai consultant veljko krunic reveals a tested process to start ai projects right so you ll get the results you want about the book succeeding with ai sets out a framework for planning and running cost effective reliable ai projects that produce real business results this practical guide reveals secrets forged during the author s experience with dozens of startups established businesses and fortune 500 giants that will help you establish meaningful achievable goals in it you ll master a repeatable process to maximize the return on data scientist hours and learn to implement effectiveness metrics for keeping projects on track and resistant to calcification what s inside where to invest for maximum payoff how ai projects are different from other software projects catching early warnings in time to correct course exercises and examples based on real world business dilemmas about the reader for project and business leadership result focused data scientists and engineering teams no ai knowledge required about the author veljko krunic is a data science consultant has a computer science phd and is a certified six sigma master black belt table of contents 1 introduction 2 how to use ai in your business 3 choosing your first ai project 4 linking business and technology 5 what is an ml pipeline and how does it affect an ai project 6 analyzing an ml pipeline 7 guiding an ai project to success 8 ai trends that may affect you

this book covers several cutting edge topics and provides a direct follow up to former publications such as intent based networking and emerging networking bringing together the latest network technologies and advanced ai applications typical subjects include 5g 6g

clouds fog leading edge llms large scale distributed environments with specific qos requirements for iot robots machine and deep learning chatbots and further ai solutions the highly promising combination of smart applications network infrastructure and ai represents a unique mix of real synergy special aspects of current importance such as energy efficiency reliability sustainability security and privacy telemedicine e learning and image recognition are addressed too the book is suitable for students professors and advanced lecturers for networking system architecture and applied ai moreover it serves as a basis for research and inspiration for interested professionals looking for new challenges

deep learning with python introduces the field of deep learning using the python language and the powerful keras library you ll learn directly from the creator of keras franois chollet building your understanding through intuitive explanations and practical examples updated from the original bestseller with over 50 new content this second edition includes new chapters cutting edge innovations and coverage of the very latest deep learning tools you ll explore challenging concepts and practice with applications in computer vision natural language processing and generative models by the time you finish you ll have the knowledge and hands on skills to apply deep learning in your own projects

the four volume set lncs 11070 11071 11072 and 11073 constitutes the refereed proceedings of the 21st international conference on medical image computing and computer assisted intervention miccai 2018 held in granada spain in september 2018 the 373 revised full papers presented were carefully reviewed and selected from 1068 submissions in a double blind review process the papers have been organized in the following topical sections part i image quality and artefacts image reconstruction methods machine learning in medical imaging statistical analysis for medical imaging image registration methods part ii optical and histology applications optical imaging applications histology applications microscopy applications optical coherence tomography and other optical imaging applications cardiac chest and abdominal applications cardiac imaging applications colorectal kidney and liver imaging applications lung imaging applications breast imaging applications other abdominal applications part iii diffusion tensor imaging and functional mri diffusion tensor imaging diffusion weighted imaging functional mri human connectome neuroimaging and brain segmentation methods neuroimaging brain segmentation methods part iv computer assisted intervention image guided interventions and surgery surgical planning simulation and work flow analysis visualization and augmented reality image segmentation methods general image segmentation methods measures and applications multi organ segmentation abdominal segmentation methods cardiac segmentation methods chest lung and spine segmentation other segmentation applications

in this book the authors employ the sfcs approach to explore a vast array of failure events in multiple sectors of transportation industry aerospace construction and critical infrastructure

the special issue is dedicated to national conference on communication computational intelligence and learning ncccil sponsored by aicte and organized by department of information technology at army institute of technology from 12 13 january 2022 this conference gave the collaborative forum to academic experts researchers and corporate professionals to enrich their knowledge in the automation and analysis of industry and business processes in a smart way the two day conference included invited talks and paper presentations focusing on the applications of computational intelligence communication machine learning and artificial intelligence

bosnia rwanda haiti afghanistan iraq and syria a quarter century of stumbles in america s pursuit of a more peaceful and just world american military interventions have cost thousands of lives and billions of dollars yet we rarely manage to enact positive and sustainable change in peace works america s unifying role in a turbulent world ambassador and global conflict leader rick barton uses a mix of stories history and analysis for a transformative approach to foreign affairs and offers concrete and attainable solutions for the future drawing on his lifetime of experience as a diplomat foreign policy expert and state department advisor rick barton grapples with the fact that the u s is strategically positioned and morally obligated to defuse international conflicts but often inadvertently escalates conflicts instead guided by the need to find solutions that will yield tangible results barton does a deep analysis of our last several interventions and discusses why they failed and how they could have succeeded he outlines a few key directives in his foreign policy strategy remain transparent with the american public act as a catalyzing not colonizing force and engage local partners but above all else he insists that the u s must maintain a focus on people since a country s greatest resource is often the ingenuity of its local citizens it is counterproductive to ignore them while planning an intervention by anchoring each chapter to a story from a specific conflict zone barton is able to discuss opportunities pursued and missed areas for improvement and policy recommendations this balance between storytelling and concrete policy suggestions both humanizes distant stories of foreign crises and provides going forward solutions for desperate situations the book begins and ends in syria the ultimate failure of our current approach to foreign policy and with devastating consequences

this book constitutes the proceedings of the 22nd international conference on information security isc 2019 held in new york city ny usa in september 2019 the 23 full papers presented in this volume were carefully reviewed and selected from 86 submissions the papers were organized in topical sections named attacks and cryptanalysis crypto i secure computation and storage machine learning and security crypto ii zero knowledge proofs defenses security side channels malware analysis crypto iii signatures and authentication

summary deep learning with python introduces the field of deep learning using the python language and the powerful keras library written by keras creator and google ai researcher franⅅois chollet this book builds your understanding through intuitive explanations and practical examples purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology machine learning has made remarkable progress in recent years we went from near unusable speech and image recognition

to near human accuracy we went from machines that couldn t beat a serious go player to defeating a world champion behind this progress is deep learning a combination of engineering advances best practices and theory that enables a wealth of previously impossible smart applications about the book deep learning with python introduces the field of deep learning using the python language and the powerful keras library written by keras creator and google ai researcher fran□ois chollet this book builds your understanding through intuitive explanations and practical examples you ll explore challenging concepts and practice with applications in computer vision natural language processing and generative models by the time you finish you ll have the knowledge and hands on skills to apply deep learning in your own projects what s inside deep learning from first principles setting up your own deep learning environment image classification models deep learning for text and sequences neural style transfer text generation and image generation about the reader readers need intermediate python skills no previous experience with keras tensorflow or machine learning is required about the author fran□ois chollet works on deep learning at google in mountain view ca he is the creator of the keras deep learning library as well as a contributor to the tensorflow machine learning framework he also does deep learning research with a focus on computer vision and the application of machine learning to formal reasoning his papers have been published at major conferences in the field including the conference on computer vision and pattern recognition cvpr the conference and workshop on neural information processing systems nips the international conference on learning representations iclr and others table of contents part 1 fundamentals of deep learning what is deep learning before we begin the mathematical building blocks of neural networks getting started with neural networks fundamentals of machine learning part 2 deep learning in practice deep learning for computer vision deep learning for text and sequences advanced deep learning best practices generative deep learning conclusions appendix a installing keras and its dependencies on ubuntu appendix b running jupyter notebooks on an ec2 gpu instance

deep learning from the ground up using r and the powerful keras library in deep learning with r second edition you will learn deep learning from first principles image classification and image segmentation time series forecasting text classification and machine translation text generation neural style transfer and image generation deep learning with r second edition shows you how to put deep learning into action it s based on the revised new edition of fran□ois chollet s bestselling deep learning with python all code and examples have been expertly translated to the r language by tomasz kalinowski who maintains the keras and tensorflow r packages at rstudio novices and experienced ml practitioners will love the expert insights practical techniques and important theory for building neural networks about the technology deep learning has become essential knowledge for data scientists researchers and software developers the r language apis for keras and tensorflow put deep learning within reach for all r users even if they have no experience with advanced machine learning or neural networks this book shows you how to get started on core dl tasks like computer vision natural language processing and more using r about the book deep learning with r second edition is a hands on guide to deep learning using the r language as you move through this book you ll quickly lock in the foundational ideas of deep learning the intuitive explanations crisp

illustrations and clear examples guide you through core dl skills like image processing and text manipulation and even advanced features like transformers this revised and expanded new edition is adapted from deep learning with python second edition by fran ois chollet the creator of the keras library what s inside image classification and image segmentation time series forecasting text classification and machine translation text generation neural style transfer and image generation about the reader for readers with intermediate r skills no previous experience with keras tensorflow or deep learning is required about the author fran ois chollet is a software engineer at google and creator of keras tomasz kalinowski is a software engineer at rstudio and maintainer of the keras and tensorflow r packages j j allaire is the founder of rstudio and the author of the first edition of this book table of contents 1 what is deep learning 2 the mathematical building blocks of neural networks 3 introduction to keras and tensorflow 4 getting started with neural networks classification and regression 5 fundamentals of machine learning 6 the universal workflow of machine learning 7 working with keras a deep dive 8 introduction to deep learning for computer vision 9 advanced deep learning for computer vision 10 deep learning for time series 11 deep learning for text 12 generative deep learning 13 best practices for the real world 14 conclusions

automated speaking assessment using language technologies to score spontaneous speech provides a thorough overview of state of the art automated speech scoring technology as it is currently used at educational testing service ets its main focus is related to the automated scoring of spontaneous speech elicited by toefl ibt speaking section items but other applications of speech scoring such as for more predictable spoken responses or responses provided in a dialogic setting are also discussed the book begins with an in depth overview of the nascent field of automated speech scoring its history applications and challenges followed by a discussion of psychometric considerations for automated speech scoring the second and third parts discuss the integral main components of an automated speech scoring system as well as the different types of automatically generated measures extracted by the system features related to evaluate the speaking construct of communicative competence as measured defined by the toefl ibt speaking assessment finally the last part of the book touches on more recent developments such as providing more detailed feedback on test takers spoken responses using speech features and scoring of dialogic speech it concludes with a discussion summary and outlook on future developments in this area written with minimal technical details for the benefit of non experts this book is an ideal resource for graduate students in courses on language testing and assessment as well as teachers and researchers in applied linguistics

learning has been fundamental to the growth and evolution of humanity and civilization the same concepts of learning applied to the tasks that machines can perform are having a similar effect now machine learning is evolving computation and its applications like never before it is now widely recognized that machine learning is playing a similar role to electricity in the late 19th and early 20th centuries in modernizing the world from simple high school science projects to large scale radio astronomy machine learning has revolutionized it all however a few of the applications clearly stand out as transforming the world and opening up a new era machine learning for societal improvement modernization and progress showcases the path breaking applications of machine learning that are

leading to the next generation of computing and living standards the focus of the book is machine learning and its application to specific domains which is resulting in substantial civilizational progress covering topics such as lifespan prediction smart transportation networks and socio economic data this premier reference source is a dynamic resource for data scientists industry leaders practitioners students and faculty of higher education sociologists researchers and academicians

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deepfakes is a synthetic media that leverage powerful artificial intelligence ai and machine learning ml techniques to generate fake visual and audio content that are extremely realistic thus making it very hard for a human to distinguish from the original ones apart from technological introduction to the deepfakes concept the book details algorithms to detect deepfakes techniques for identifying manipulated content and identifying face swap generative adversarial neural networks media forensic techniques deep learning architectures forensic analysis of deepfakes and so forth provides a technical introduction to deepfakes its benefits and the potential harms presents practical approaches of creation and detection of deepfakes using deep learning dl techniques draws attention towards various challenging issues and societal impact of deepfakes with their existing solutions includes research analysis in the domain of dl fakes for assisting the creation and detection of deepfakes applications discusses future research directions with emergence of deepfakes technology this book is aimed at graduate students researchers and professionals in data science artificial intelligence computer vision and machine learning

in the field of information retrieval the challenge lies in the speed and accuracy with which users can access relevant data with the increasing complexity of digital interactions the need for a solution that transcends traditional methods becomes evident human involvement and manual investigation are not only time consuming but also prone to errors hindering the seamless exchange of information in various sectors design and development of emerging chatbot technology emerges as a comprehensive solution to the predicament posed by traditional information retrieval methods focusing on the transformative power of chatbots it delves into the intricacies of their operation applications and development designed for academic scholars across diverse disciplines the book serves as a beacon for those seeking a deeper understanding of chatbots and their potential to revolutionize information retrieval in customer service education healthcare e commerce and more

this book constitutes the thoroughly refereed proceedings of the 10th international conference on intelligent human computer interaction ihci 2018 held in allahabad india in december 2018 the 28 regular papers presented were carefully reviewed and selected from 89 submissions the papers have been organized in the following topical sections ecg eeg based and other multimodal interactions natural

language speech and dialogue processing modeling human cognitive processes and simulation image and vision based interactions and applications of hci

this cutting edge handbook offers a comprehensive introduction to the emerging research field of artificial intelligence ai in human resource management hrm broadly mapping ai fields relevant for hr it not only considers the more well known areas of machine learning and natural language processing but also lesser known fields such as affective computing and robotic process automation

this two volume set lncs 11592 and 11593 constitutes the refereed proceedings of the 5th international conference on human aspects of it for the aged population itap 2019 held in july 2019 as part of hci international 2019 in orlando fl usa hcii 2019 received a total of 5029 submissions of which 1275 papers and 209 posters were accepted for publication after a careful reviewing process the 86 papers presented in these two volumes are organized in topical sections named design with and for the elderly aging and technology acceptance aging and the user experience elderly specific design aging and social media games and exergames for the elderly ambient assisted living aging motion cognition emotion and learning

this book describes new theories and applications of artificial neural networks with a special focus on answering questions in neuroscience biology and biophysics and cognitive research it covers a wide range of methods and technologies including deep neural networks large scale neural models brain computer interface signal processing methods as well as models of perception studies on emotion recognition self organization and many more the book includes both selected and invited papers presented at the xxi international conference on neuroinformatics held on october 7 11 2019 in dolgoprudny a town in moscow region russia

this book addresses a variety of problems that arise at the interface between ai techniques and challenging problems in cybersecurity the book covers many of the issues that arise when applying ai and deep learning algorithms to inherently difficult problems in the security domain such as malware detection and analysis intrusion detection spam detection and various other subfields of cybersecurity the book places particular attention on data driven approaches where minimal expert domain knowledge is required this book bridges some of the gaps that exist between deep learning ai research and practical problems in cybersecurity the proposed topics cover a wide range of deep learning and ai techniques including novel frameworks and development tools enabling the audience to innovate with these cutting edge research advancements in various security related use cases the book is timely since it is not common to find clearly elucidated research that applies the latest developments in ai to problems in cybersecurity

if you have been around long enough you should notice that your search engine can understand human language much better than in previous years the game changer was the attention mechanism it is not an easy topic to explain and it is sad to see someone consider that

as secret magic if we know more about attention and understand the problem it solves we can decide if it fits into our project and be more comfortable using it if you are interested in natural language processing and want to tap into the most advanced technique in deep learning for nlp this new ebook in the friendly machine learning mastery style that you re used to is all you need using clear explanations and step by step tutorial lessons you will learn how attention can get the job done and why we build transformer models to tackle the sequence data you will also create your own transformer model that translates sentences from one language to another

this practical guide to artificial intelligence and its impact on industry dispels common myths and calls for cross sector collaborative leadership for the responsible design and embedding of ai in the daily work of businesses and oversight by boards artificial intelligence has arrived and it s coming to a business near you the disruptive impact of ai on the global economy from health care to energy financial services to agriculture and defense to media is enormous technology literacy is a must for traditional businesses their boards policy makers and governance professionals this is the first book to explain where ai comes from why it has emerged as one of the most powerful forces in mergers and acquisitions and research and development and what companies need to do to implement it successfully it equips business leaders with a practical roadmap for competing and even thriving in the face of the coming ai revolution the authors analyze competitive trends provide industry and governance examples and explain interactions between ai and other digital technologies such as blockchain cybersecurity and the internet of things at the same time ai experts will learn how their research and products can increase the competitiveness of their businesses and corporate boards will come away with a thorough knowledge of the ai governance ethics and risk questions to ask

build a keras model to scale and deploy on a kubernetes cluster we have seen an exponential growth in the use of artificial intelligence ai over last few years ai is becoming the new electricity and is touching every industry from retail to manufacturing to healthcare to entertainment within ai were seeing a particular growth in machine learning ml and deep learning dl applications ml is all about learning relationships from labeled supervised or unlabeled data unsupervised dl has many layers of learning and can extract patterns from unstructured data like images video audio etc em style box sizing border box keras to kubernetes the journey of a machine learning model to production takes you through real world examples of building dl models in keras for recognizing product logos in images and extracting sentiment from text you will then take that trained model and package it as a web application container before learning how to deploy this model at scale on a kubernetes cluster you will understand the different practical steps involved in real world ml implementations which go beyond the algorithms find hands on learning examples learn to uses keras and kubernetes to deploy machine learning models discover new ways to collect and manage your image and text data with machine learning reuse examples as is to deploy your models understand the ml model development lifecycle and deployment to production if youre ready to learn about one of the most popular dl frameworks and build production applications with it youve come to the right place

through a recent series of breakthroughs deep learning has boosted the entire field of machine learning now even programmers who know close to nothing about this technology can use simple efficient tools to implement programs capable of learning from data this bestselling book uses concrete examples minimal theory and production ready python frameworks scikit learn keras and tensorflow to help you gain an intuitive understanding of the concepts and tools for building intelligent systems with this updated third edition author aurⵈlien gⵈron explores a range of techniques starting with simple linear regression and progressing to deep neural networks numerous code examples and exercises throughout the book help you apply what you ve learned programming experience is all you need to get started use scikit learn to track an example ml project end to end explore several models including support vector machines decision trees random forests and ensemble methods exploit unsupervised learning techniques such as dimensionality reduction clustering and anomaly detection dive into neural net architectures including convolutional nets recurrent nets generative adversarial networks autoencoders diffusion models and transformers use tensorflow and keras to build and train neural nets for computer vision natural language processing generative models and deep reinforcement learning

in the past generation brazil has risen to become the seventh largest economy and fourth largest democracy in the world yet its rise challenges the conventional wisdom that capitalist democracies will necessarily converge to become faithful adherents of a us led global liberal order indeed brazil demonstrates that middle powers even those of a deeply democratic bent may differ in their views of what democracy means on the global stage and how international relations should be conducted among sovereign nations this volume explores brazil s postures on specific aspects of foreign relations including trade foreign and environmental policy humanitarian intervention nuclear proliferation and south south relations among other topics the authors argue from a variety of perspectives that even as brazil seeks greater integration and recognition it also brings challenges to the status quo that are emblematic of the tensions accompanying the rise to prominence of a number of middlepowers in an increasingly multipolar world system

this two volume book presents outcomes of the 7th international conference on soft computing for problem solving socpros 2017 this conference is a joint technical collaboration between the soft computing research society liverpool hope university uk the indian institute of technology roorkee the south asian university new delhi and the national institute of technology silchar and brings together researchers engineers and practitioners to discuss thought provoking developments and challenges in order to select potential future directions the book presents the latest advances and innovations in the interdisciplinary areas of soft computing including original research papers in the areas including but not limited to algorithms artificial immune systems artificial neural networks genetic algorithms genetic programming and particle swarm optimization and applications control systems data mining and clustering finance weather forecasting game theory business and forecasting applications it is a valuable resource for both young and experienced researchers dealing with complex and intricate real world problems for which finding a solution by traditional methods is a difficult task

karina wake up there s water everywhere cindy s panicked voice echoed through the dream pulling her back to current history to being lost in the amazon separated from joe and the rest of her friends lost and alone except for a young child who now depended on her to make life preserving choices water splashed in karina s face reinforcing the urgency of the situation acting responsibly had always been a problem for fourteen year old karina even though she had become a talented ultralight airplane pilot and had been chosen for a special school project in the amazon karina seemed adept at finding ways for getting into trouble quick to anger she often reacted emotionally without fully considering the consequences for her actions now an unauthorized flight had stranded karina deep within the rainforest on an island in a wildly flooding river turbulent water crashed against the improvised shelter she had only seconds to make her most responsible decision ever a life or death decision karina grabbed seven year old cindy and made her choice hoping it was the right one and praying it wouldn t be her last

this contributed volume addresses the global scale of urbanization and its impacts on biodiversity by adding human capital cities are incubators for new ideas and technologies creating the possibility for socially and environmentally sensitive growth but this is rarely seen urban ecology an essential field that supports planning based on environmental perspectives is a new science in tropical countries this book discusses the social inequity embedded in tropical cities and explores how this inequity also materializes in biodiversity with poor neighborhoods of tropical cities lacking sufficient access to green space and therefore reduced access to the benefits of nature and poor support for biodiversity with the current biodiversity crisis the traditional approach to protecting pristine areas is insufficient the chapters in this volume illustrate how tropical cities can act as spaces for biological conservation ecological literacy can help cities reconcile the needs of both people and of nature this book compiles studies by experts from more than 100 institutions and 29 countries on the ecology and biodiversity of tropical cities at multiple scales and applies their studies to urban planning and management the audience for this book includes researchers students and professionals working on environmental social economic cultural political architectural and development projects in urban areas offering a deep and timely discussion of their influence on the fauna and flora of tropical cities

this book presents state of the art intelligent methods and techniques for solving real world problemsand offers a vision of future research featuring 143 papers from the 4th future technologies conference held in san francisco usa in 2019 it covers a wide range of important topics including but not limited to computing electronics artificial intelligence robotics security and communications and their applications to the real world as such it is an interesting exciting and inspiring read

this book constitutes the proceedings of the 23rd international conference on perspectives in business informatics research bir 2024 which took place in prague czech republic in september 2024 the central theme of bir 2024 was artificial intelligence ai in business informatics opportunities and challenges the 15 full papers and 1 short paper included in these proceedings were carefully reviewed and

selected from 43 submissions they cover different aspects of the discipline and are organized in sections on ai opportunities and challenges ai applications and use cases in business business intelligence business and information systems development and knowledge and traceability management

the 30 volume set comprising the lncs books 12346 until 12375 constitutes the refereed proceedings of the 16th european conference on computer vision eccv 2020 which was planned to be held in glasgow uk during august 23 28 2020 the conference was held virtually due to the covid 19 pandemic the 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions the papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation

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this book constitutes the proceedings of the 14th international conference on intelligent virtual agents iva 2014 held in boston ma usa in august 2014 the 14 full and 24 short papers presented were carefully reviewed and selected from 78 submissions in addition the volume includes 25 demo and poster papers which were on display during the conference the papers cover many aspects of intelligent virtual agent theory and application with a special focus on their use in healthcare

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data science has never had more influence on the world large companies are now seeing the benefit of employing data scientists to interpret the vast amounts of data that now exists however the field is so new and is evolving so rapidly that the analysis produced can be haphazard at best the 9 pitfalls of data science shows us real world examples of what can go wrong written to be an entertaining read this invaluable guide investigates the all too common mistakes of data scientists who can be plagued by lazy thinking whims hunches and prejudices and indicates how they have been at the root of many disasters including the great recession gary smith and jay cordes emphasise how scientific rigor and critical thinking skills are indispensable in this age of big data as machines often find meaningless patterns that can lead to dangerous false conclusions the 9 pitfalls of data science is loaded with entertaining tales of both successful and misguided approaches to interpreting data both grand successes and epic failures these cautionary tales will not only help data scientists

be more effective but also help the public distinguish between good and bad data science

this book provides an ideal foundation for readers to understand the application of artificial intelligence ai and machine learning ml techniques to expert systems in the healthcare sector it starts with an introduction to the topic and presents chapters which progressively explain decision making theory that helps solve problems which have multiple criteria that can affect the outcome of a decision key aspects of the subject such as machine learning in healthcare prediction techniques mathematical models and classification of healthcare problems are included along with chapters which delve in to advanced topics on data science deep learning artificial neural networks etc and practical examples influenza epidemiology and retinoblastoma treatment analysis key features introduces readers to the basics of ai and ml in expert systems for healthcare focuses on a problem solving approach to the topic provides information on relevant decision making theory and data science used in the healthcare industry includes practical applications of ai and ml for advanced readers includes bibliographic references for further reading the reference is an accessible source of knowledge on multi criteria decision support systems in healthcare for medical consultants healthcare policy makers researchers in the field of medical biotechnology oncology and pharmaceutical research and development

this book contains accepted papers presented at cisis 2020 held in the beautiful and historic city of burgos spain in september 2020 the aim of the cisis 2020 conference is to offer a meeting opportunity for academic and industry related researchers belonging to the various vast communities of computational intelligence information security and data mining the need for intelligent flexible behaviour by large complex systems especially in mission critical domains is intended to be the catalyst and the aggregation stimulus for the overall event after a thorough peer review process the cisis 2020 international program committee selected 43 papers which are published in these conference proceedings achieving an acceptance rate of 28 due to the covid 19 outbreak the cisis 2020 edition was blended combining on site and on line participation in this relevant edition a special emphasis was put on the organization of five special sessions related to relevant topics as fake news detection and prevention mathematical methods and models in cybersecurity measurements for a dynamic cyber risk assessment cybersecurity in a hybrid quantum world anomaly intrusion detection and from the least to the least cryptographic and data analytics solutions to fulfil least minimum privilege and endorse least minimum effort in information systems the selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the program committees for their hard work in the reviewing process this is a crucial process to the creation of a high standard conference and the cisis conference would not exist without their help

the book artificial intelligence for healthcare machine learning and diagnostics explores how ai and machine learning are reshaping healthcare focusing on diagnosis patient care and treatment across various specialties it covers ai applications in fields such as cardiovascular care orthopedics emergency medicine ent and remote patient monitoring additionally the book discusses ai s

transformative role in brain tumor surgery dentistry and elder care showcasing its power to personalize therapies predict outcomes and enhance outpatient efficiency key chapters examine ai in pathology specifically in image analysis and digital pathology and its expanding influence in maternal and fetal health this essential guide provides healthcare practitioners researchers clinical experts and students with insights into ai s practical uses and future potential serving as a valuable reference for ai driven diagnostic advancements and healthcare solutions

comprehensive accessible introduction to deep learning for engineering tasks through python programming low cost hardware and freely available software deep learning on embedded systems is a comprehensive guide to the practical implementation of deep learning for engineering tasks through computers and embedded hardware such as raspberry pi and nvidia jetson nano after an introduction to the field the book provides fundamental knowledge on deep learning convolutional and recurrent neural networks computer vision and basics of linux terminal and docker engines this book shows detailed setup steps of jetson nano and raspberry pi for utilizing essential frameworks such as pytorch and opencv gpu configuration and dependency installation procedure for using pytorch is also discussed allowing newcomers to seamlessly navigate the learning curve a key challenge of utilizing deep learning on embedded systems is managing limited gpu and memory resources this book outlines a strategy of training complex models on a desktop computer and transferring them to embedded systems for inference also students and researchers often face difficulties with the varying probabilistic theories and notations found in data science literature to simplify this the book mainly focuses on the practical implementation part of deep learning using python programming low cost hardware and freely available software such as anaconda and visual studio code to aid in reader learning questions and answers are included at the end of most chapters written by a highly qualified author deep learning on embedded systems includes discussion on fundamentals of deep learning including neurons and layers activation functions network architectures hyperparameter tuning and convolutional and recurrent neural networks cnns rnns pytorch opencv and other essential framework setups for deep transfer learning along with linux terminal operations docker engine docker images and virtual environments in embedded devices training models for image classification and object detection with classification then converting trained pytorch models to onnx format for efficient deployment on jetson nano and raspberry pi deep learning on embedded systems serves as an excellent introduction to the field for undergraduate engineering students seeking to learn deep learning implementations for their senior capstone or class projects and graduate researchers and educators who wish to implement deep learning in their research

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Those Who Know: Understanding Expertise and its Influence

This article explores the concept of "those who know" - individuals possessing specialized knowledge, skills, and experience within a particular domain. We will examine the characteristics that define expertise, the processes involved in acquiring it, the impact of expertise on decision-making, and the potential pitfalls associated with relying solely on "those who know." Understanding this concept is crucial in various fields, from everyday life to complex scientific endeavors and organizational leadership. We'll delve into how expertise is earned, its limitations, and the importance of critical thinking even when facing seemingly infallible experts.

1. Defining Expertise: More Than Just Knowledge

Expertise is not simply a vast accumulation of facts. It's a sophisticated blend of declarative knowledge (knowing what), procedural knowledge (knowing how), and strategic knowledge (knowing when and why to apply knowledge). Experts possess a deep understanding of their field, surpassing superficial knowledge through years of dedicated learning and practice. They can quickly identify relevant information, solve complex problems effectively, and anticipate challenges. For example, a master chess player doesn't just know the rules; they possess an intuitive understanding of strategic patterns, anticipating opponents' moves several steps ahead. A seasoned surgeon possesses not only anatomical knowledge but also the honed procedural skills and judgment necessary for complex operations.

2. The Acquisition of Expertise: A Journey of Deliberate Practice

The development of expertise is not a passive process. It requires deliberate practice - focused, structured, and purposeful engagement with a subject matter, often involving feedback and iterative refinement. This isn't simply repetition; it involves pushing boundaries, seeking challenges, and actively analyzing performance to identify areas for improvement. The "10,000-hour rule," while debated, highlights the substantial time investment typically needed to achieve mastery in a skill. Consider a concert pianist: their expertise isn't solely the result of natural talent; it's a product of countless hours of rigorous practice, refining technique and musical interpretation.

3. The Influence of Expertise on Decision-Making

Experts often play a vital role in decision-making processes, particularly in areas requiring specialized knowledge. Their insights, based on deep understanding and experience, can be invaluable. However, it's crucial to recognize that even experts can be fallible. Overconfidence, cognitive biases, and the limitations of their own experience can lead to errors in judgment. For example, a financial expert might overlook emerging market trends, leading to flawed investment strategies. This highlights the importance of incorporating diverse perspectives and employing critical thinking, even when consulting with acknowledged experts.

4. The Limitations of Expertise: Bias and the Dunning-Kruger Effect

Experts are not immune to cognitive biases. Confirmation bias (seeking information that confirms pre-existing beliefs) and anchoring bias (over-relying on initial information) can influence their judgment. The Dunning-Kruger effect demonstrates that individuals with limited expertise often overestimate their abilities, while true experts may underestimate theirs due to their awareness of the vastness of their field. This underscores the importance of humility and continuous learning even among seasoned professionals. A medical doctor, despite their expertise, might still misdiagnose a patient, highlighting the inherent uncertainties even in fields dominated by "those who know."

5. Beyond Expertise: The Value of Collaboration and Critical Thinking

While the knowledge and skills of experts are invaluable, reliance solely on "those who know" can be detrimental. Effective decision-making often requires a collaborative approach, incorporating diverse perspectives and fostering critical evaluation of information. This prevents groupthink and ensures that potential biases or limitations of individual experts are mitigated. Open discussion, questioning assumptions, and seeking alternative viewpoints are vital components of sound decision-making, even in fields heavily reliant on specialized knowledge. For instance, a scientific breakthrough rarely comes from a single expert working in isolation; it often results from collaborative research and peer review. Summary: "Those who know," or experts, play a significant role in numerous aspects of life. Their expertise, born from years of deliberate practice and accumulated knowledge, influences decisions and drives progress. However, it's crucial to recognize that expertise is not infallible. Cognitive biases, the Dunning-Kruger effect, and the inherent limitations of any individual's knowledge demand a critical and collaborative approach to decision-making. Even with experts, critical

thinking, diverse perspectives, and continuous learning remain paramount. FAQs: 1. How can I identify a true expert? Look for evidence of formal qualifications, publications, practical experience, and a willingness to acknowledge limitations and uncertainties. 2. Is it always necessary to consult an expert? No. For many everyday decisions, common sense and available information may suffice. Consult an expert when the stakes are high, the subject matter is complex, and specialized knowledge is crucial. 3. How can I avoid being misled by someone claiming expertise? Critically evaluate their claims, look for evidence of their qualifications and experience, and seek second opinions. 4. How can I improve my own expertise in a field? Engage in deliberate practice, seek feedback, and continuously learn through reading, research, and mentorship. 5. What is the role of intuition in expertise? Intuition, honed by experience, can be a powerful tool for experts, but it should be complemented by critical thinking and a thorough analysis of available data.

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