Hands-On Machine Learning with Scikit-Learn & TensorFlow

CONCEPTS, TOOLS, AND TECHNIQUES TO BUILD INTELLIGENT SYSTEMS

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Hands On Machine Learning With Scikit Learn And Tensorflow Concepts Tools And Techniques For Building Intelligent Systems

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Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow Aurélien Géron,2019-09-05 Through a series of recent 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 practical book shows you how By using concrete examples minimal theory and two production ready Python frameworks Scikit Learn and TensorFlow author Aur lien G ron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems You ll learn a range of techniques starting with simple linear regression and progressing to deep neural networks With exercises in each chapter to help you apply what you ve learned all you need is programming experience to get started Explore the machine learning landscape particularly neural nets Use Scikit Learn to track an example machine learning project end to end Explore several training models including support vector machines decision trees random forests and ensemble methods Use the TensorFlow library to build and train neural nets Dive into neural net architectures including convolutional nets recurrent nets and deep reinforcement learning Learn techniques for training and scaling deep neural nets *Hands-On Machine Learning with Scikit-Learn and TensorFlow* Aurélien Géron,2017-03-13 Through a series of recent 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 practical book shows you how By using concrete examples minimal theory and two production ready Python frameworks scikit learn and TensorFlow author Aur lien G ron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems You ll learn a range of techniques starting with simple linear regression and progressing to deep neural networks With exercises in each chapter to help you apply what you ve learned all you need is programming experience to get started Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow Aurélien Géron,2022-10-04 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 Aur lien G ron 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 *Intelligent Systems and Applications* Yaxin Bi,Rahul Bhatia,Supriya Kapoor,2019-08-23 The book presents a remarkable collection of chapters covering a wide range of topics in the areas of intelligent systems and artificial intelligence and their real world applications It gathers the proceedings of the Intelligent Systems Conference 2019 which attracted a total of 546 submissions from pioneering researchers scientists industrial engineers and students from all around the world These submissions underwent a double blind peer review process after which 190 were selected for inclusion in these proceedings As intelligent systems continue to replace and sometimes outperform human intelligence in decision making processes they have made it possible to tackle a host of problems more effectively This branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for an international conference as a venue for reporting on the latest innovations and trends This book collects both theory and application based chapters on virtually all aspects of artificial intelligence presenting state of the art intelligent methods and techniques for solving real world problems along with a vision for future research it represents a unique and valuable asset *Handbook of HydroInformatics* Saeid Eslamian,Faezeh Eslamian,2022-11-30 Classic Soft Computing Techniques is the first volume of the three in the Handbook of HydroInformatics series Through this comprehensive 34 chapters work the contributors explore the difference between traditional computing also known as hard computing and soft computing which is based on the importance given to issues like precision certainty and rigor The chapters go on to define fundamentally classic soft computing techniques such as Artificial Neural Network Fuzzy Logic Genetic Algorithm Supporting Vector Machine Ant Colony Based Simulation Bat Algorithm Decision Tree Algorithm Firefly Algorithm Fish Habitat Analysis Game Theory Hybrid Cuckoo Harmony Search Algorithm Honey Bee Mating Optimization Imperialist Competitive Algorithm Relevance Vector Machine etc It is a fully comprehensive handbook providing all the information needed around classic soft computing techniques This volume is a true interdisciplinary work and the audience includes postgraduates and early career researchers interested in Computer Science Mathematical Science Applied Science Earth and Geoscience Geography Civil Engineering Engineering Water Science Atmospheric Science Social Science Environment Science Natural Resources and Chemical Engineering Key insights from global contributors in the fields of data management research climate change and resilience insufficient data problem etc Offers applied examples and case studies in each chapter providing the reader with real world scenarios for comparison Introduces classic soft computing techniques necessary for a range of disciplines *Advances in Intelligent Systems and Computing IV* Natalya Shakhovska,Mykola O. Medykovskyy,2019-11-01 This book reports on new theories and applications in the field of intelligent systems and computing It covers computational and artificial intelligence methods as well as advances

in computer vision current issues in big data and cloud computing computation linguistics and cyber physical systems It also reports on important topics in intelligent information management Written by active researchers the respective chapters are based on selected papers presented at the XIV International Scientific and Technical Conference on Computer Science and Information Technologies CSIT 2019 held on September 17 20 2019 in Lviv Ukraine The conference was jointly organized by the Lviv Polytechnic National University Ukraine the Kharkiv National University of Radio Electronics Ukraine and the Technical University of Lodz Poland under patronage of Ministry of Education and Science of Ukraine Given its breadth of coverage the book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems and is sure to foster new discussions and collaborations among different groups **AI Business Strategy** Thomas Hutzschenreuter,Tim Lämmermann,2025-11-18 This book equips you with essential knowledge to strategically adopt and leverage today s machine learning based AI systems Drawing on several years of research with globally leading corporations it provides an innovative guide to developing your own AI business strategy It is packed with diverse strategy examples and hands on worksheets to help you turn newly gained insights into immediate practical action

Hands-On Machine Learning with Scikit-Learn and PyTorch Aurélien Géron,2025-10-22 The potential of machine learning today is extraordinary yet many aspiring developers and tech professionals find themselves daunted by its complexity Whether you re looking to enhance your skill set and apply machine learning to real world projects or are simply curious about how AI systems function this book is your jumping off place With an approachable yet deeply informative style author Aur lien G ron delivers the ultimate introductory guide to machine learning and deep learning Drawing on the Hugging Face ecosystem with a focus on clear explanations and real world examples the book takes you through cutting edge tools like Scikit Learn and PyTorch from basic regression techniques to advanced neural networks Whether you re a student professional or hobbyist you ll gain the skills to build intelligent systems Understand ML basics including concepts like overfitting and hyperparameter tuning Complete an end to end ML project using scikit Learn covering everything from data exploration to model evaluation Learn techniques for unsupervised learning such as clustering and anomaly detection Build advanced architectures like transformers and diffusion models with PyTorch Harness the power of pretrained models including LLMs and learn to fine tune them Train autonomous agents using reinforcement learning An Anthology of Global Risk SJ Beard,Tom Hobson,2024-09-03 This anthology brings together a diversity of key texts in the emerging field of Existential Risk Studies It serves to complement the previous volume The Era of Global Risk An Introduction to Existential Risk Studies by providing open access to original research and insights in this rapidly evolving field At its heart this book highlights the ongoing development of new academic paradigms and theories of change that have emerged from a community of researchers in and around the Centre for the Study of Existential Risk The chapters in this book challenge received notions of human extinction and civilization collapse and seek to chart new paths towards existential security and

hope The volume curates a series of research articles including previously published and unpublished work exploring the nature and ethics of catastrophic global risk the tools and methodologies being developed to study it the diverse drivers that are currently pushing it to unprecedented levels of danger and the pathways and opportunities for reducing this In each case they go beyond simplistic and reductionist accounts of risk to understand how a diverse range of factors interact to shape both catastrophic threats and our vulnerability and exposure to them and reflect on different stakeholder communities policy mechanisms and theories of change that can help to mitigate and manage this risk Bringing together experts from across diverse disciplines the anthology provides an accessible survey of the current state of the art in this emerging field The interdisciplinary and trans disciplinary nature of the cutting edge research presented here makes this volume a key resource for researchers and academics However the editors have also prepared introductions and research highlights that will make it accessible to an interested general audience as well Whatever their level of experience the volume aims to challenge readers to take on board the extent of the multiple dangers currently faced by humanity and to think critically and proactively about reducing global risk   **Advances in Computational Collective Intelligence** Ngoc-Than Nguyen,Bogdan Franczyk,André Ludwig,Manuel Nunez,Jan Treur,Gottfried Vossen,Adrianna Kozierkiewicz,2024-09-07 This two volume set CCIS 2165 2166 constitutes the refereed proceedings of the 16th International Conference on Computational Collective Intelligence ICCCI 2024 held in Leipzig Germany during September 9 11 2024 The 67 full papers included in this book were carefully reviewed and selected from 234 submissions The main track covering the methodology and applications of CCI included collective decision making data fusion deep learning techniques natural language processing data mining and machine learning social networks and intelligent systems optimization computer vision knowledge engineering and application as well as Internet of Things technologies and applications The special sessions covering some specific topics of particular interest included cooperative strategies for decision making and optimization security and reliability of information networks and social media anomalies detection machine learning deep learning digital image processing artificial intelligence speech communication IOT applications natural language processing innovative applications in data science

Advances in Information Technology in Civil and Building Engineering Sebastian Skatulla,Hans Beushausen,2023-09-29 This book gathers the latest advances innovations and applications in the field of information technology in civil and building engineering presented at the 19th International Conference on Computing in Civil and Building Engineering ICCCBE held in Cape Town South Africa on October 26 28 2022 It covers highly diverse topics such as BIM construction information modeling knowledge management GIS GPS laser scanning sensors monitoring VR AR computer aided construction product and process modeling big data and IoT cooperative design mobile computing simulation structural health monitoring computer aided structural control and analysis ICT in geotechnical engineering computational mechanics asset management maintenance urban planning facility management and smart cities Written by leading researchers and engineers and

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learning algorithms to solve complex challenges faced by data scientists todayUse Python libraries such as TensorFlow and Keras to create smart cognitive actions for your projectsBook Description The surge in interest in machine learning ML is due to the fact that it revolutionizes automation by learning patterns in data and using them to make predictions and decisions If you re interested in ML this book will serve as your entry point to ML Python Machine Learning By Example begins with an introduction to important ML concepts and implementations using Python libraries Each chapter of the book walks you through an industry adopted application You ll implement ML techniques in areas such as exploratory data analysis feature engineering and natural language processing NLP in a clear and easy to follow way With the help of this extended and updated edition you ll understand how to tackle data driven problems and implement your solutions with the powerful yet simple Python language and popular Python packages and tools such as TensorFlow scikit learn gensim and Keras To aid your understanding of popular ML algorithms the book covers interesting and easy to follow examples such as news topic modeling and classification spam email detection stock price forecasting and more By the end of the book you ll have put together a broad picture of the ML ecosystem and will be well versed with the best practices of applying ML techniques to make the most out of new opportunities What you will learnUnderstand the important concepts in machine learning and data scienceUse Python to explore the world of data mining and analyticsScale up model training using varied data complexities with Apache SparkDelve deep into text and NLP using Python libraries such NLTK and gensimSelect and build an ML model and evaluate and optimize its performanceImplement ML algorithms from scratch in Python TensorFlow and scikit learnWho this book is for If you re a machine learning aspirant data analyst or data engineer highly passionate about machine learning and want to begin working on ML assignments this book is for you Prior knowledge of Python coding is assumed and basic familiarity with statistical concepts will be beneficial although not necessary *Practical Machine Learning with Python* Dipanjan Sarkar,Raghav Bali,Tushar Sharma,2017-12-20 Master the essential skills needed to recognize and solve complex problems with machine learning and deep learning Using real world examples that leverage the popular Python machine learning ecosystem this book is your perfect companion for learning the art and science of machine learning to become a successful practitioner The concepts techniques tools frameworks and methodologies used in this book will teach you how to think design build and execute machine learning systems and projects successfully Practical Machine Learning with Python follows a structured and comprehensive three tiered approach packed with hands on examples and code Part 1 focuses on understanding machine learning concepts and tools This includes machine learning basics with a broad overview of algorithms techniques concepts and applications followed by a tour of the entire Python machine learning ecosystem Brief guides for useful machine learning tools libraries andframeworks are also covered Part 2 details standard machine learning pipelines with an emphasis on data processing analysis feature engineering and modeling You will learn how to process wrangle summarize and visualize data in its various forms Feature engineering and selection methodologies

will be covered in detail with real world datasets followed by model building tuning interpretation and deployment Part 3 explores multiple real world case studies spanning diverse domains and industries like retail transportation movies music marketing computer vision and finance For each case study you will learn the application of various machine learning techniques and methods The hands on examples will help you become familiar with state of the art machine learning tools and techniques and understand what algorithms are best suited for any problem Practical Machine Learning with Python will empower you to start solving your own problems with machine learning today What You ll Learn Execute end to end machine learning projects and systems Implement hands on examples with industry standard open source robust machine learning tools and frameworks Review case studies depicting applications of machine learning and deep learning on diverse domains and industries Apply a wide range of machine learning models including regression classification and clustering Understand and apply the latest models and methodologies from deep learning including CNNs RNNs LSTMs and transfer learning Who This Book Is For IT professionals analysts developers data scientists engineers graduate students   Hands-On Deep Learning Architectures with Python Yuxi (Hayden) Liu,Saransh Mehta,2019-04-30 Concepts tools and techniques to explore deep learning architectures and methodologies Key FeaturesExplore advanced deep learning architectures using various datasets and frameworksImplement deep architectures for neural network models such as CNN RNN GAN and many moreDiscover design patterns and different challenges for various deep learning architecturesBook Description Deep learning architectures are composed of multilevel nonlinear operations that represent high level abstractions this allows you to learn useful feature representations from the data This book will help you learn and implement deep learning architectures to resolve various deep learning research problems Hands On Deep Learning Architectures with Python explains the essential learning algorithms used for deep and shallow architectures Packed with practical implementations and ideas to help you build efficient artificial intelligence systems AI this book will help you learn how neural networks play a major role in building deep architectures You will understand various deep learning architectures such as AlexNet VGG Net GoogleNet with easy to follow code and diagrams In addition to this the book will also guide you in building and training various deep architectures such as the Boltzmann mechanism autoencoders convolutional neural networks CNNs recurrent neural networks RNNs natural language processing NLP GAN and more all with practical implementations By the end of this book you will be able to construct deep models using popular frameworks and datasets with the required design patterns for each architecture You will be ready to explore the potential of deep architectures in today s world What you will learnImplement CNNs RNNs and other commonly used architectures with PythonExplore architectures such as VGGNet AlexNet and GoogLeNetBuild deep learning architectures for AI applications such as face and image recognition fraud detection and many moreUnderstand the architectures and applications of Boltzmann machines and autoencoders with concrete examples Master artificial intelligence and neural network concepts and apply them to your architectureUnderstand

deep learning architectures for mobile and embedded systemsWho this book is for If you re a data scientist machine learning developer engineer or deep learning practitioner or are curious about AI and want to upgrade your knowledge of various deep learning architectures this book will appeal to you You are expected to have some knowledge of statistics and machine learning algorithms to get the best out of this book   *Hands-On Machine Learning* Mac Chris,2022-11-16 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 best selling 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 Aurelien Geron 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 machine learning 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 and transformers Use TensorFlow and Keras to build and train neural nets for computer vision natural language processing generative models and deep reinforcement learning Train neural nets using multiple GPUs and deploy them at scale using Google s Vertex AI

<u>Hands-On Machine Learning</u> Jamina Katrine,2022-11-23 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 best selling 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 Aurelien Geron 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 machine learning 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 and transformers Use TensorFlow and Keras to build and train neural nets for computer vision natural language processing generative models and deep reinforcement learning Train neural nets using multiple GPUs and deploy them at scale using Google s Vertex AI   **Machine Learning for Beginners** Victor Akinkunmi,2023-02-17 Are you new to the world of machine learning Do you want to learn how to build intelligent

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