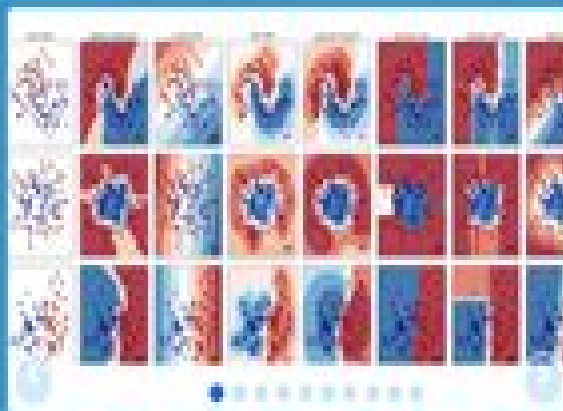




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Machine Learning in Python

- Simple and efficient tools for data mining and data analysis
- Accessible to everybody, and reusable in various contexts
- Built on NumPy, SciPy, and matplotlib
- Open source, commercially usable - BSD license

Classification

Identifying to which category an object belongs to.

Applications: Spam detection, Image recognition.

Algorithms: SVM, nearest neighbors, random forest, ... [Examples](#)

Regression

Predicting a continuous-valued attribute associated with an object.

Applications: Drug response, Stock prices.

Algorithms: SVM, ridge regression, Lasso, ... [Examples](#)

Clustering

Automatic grouping of similar objects into sets.

Applications: Customer segmentation, Grouping experiment outcomes.

Algorithms: k-Means, spectral clustering, mean-shift, ... [Examples](#)

Dimensionality reduction

Reducing the number of random variables to consider.

Applications: Visualization, Increased efficiency.

Algorithms: PCA, feature selection, non-negative matrix factorization, ... [Examples](#)

Model selection

Comparing, validating and choosing parameters and models.

Goal: Improved accuracy via parameter tuning.

Modules: grid search, cross validation, metrics, ... [Examples](#)

Preprocessing

Feature extraction and normalization.

Application: Transforming input data such as text for use with machine learning algorithms.

Modules: preprocessing, feature extraction, ... [Examples](#)

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Data Mining with Python Di Wu, 2024-04-10 Data is everywhere and it's growing at an unprecedented rate. But making sense of all that data is a challenge. Data Mining is the process of discovering patterns and knowledge from large data sets and Data Mining with Python focuses on the hands-on approach to learning Data Mining. It showcases how to use Python Packages to fulfill the Data Mining pipeline which is to collect, integrate, manipulate, clean, process, organize, and analyze data for knowledge. The contents are organized based on the Data Mining pipeline so readers can naturally progress step by step through the process. Topics, methods, and tools are explained in three aspects: What it is as a theoretical background, why we need it as an application orientation, and how we do it as a case study. This book is designed to give students, data scientists, and business analysts an understanding of Data Mining concepts in an applicable way. Through interactive tutorials that can be run, modified, and used for a more comprehensive learning experience, this book will help its readers to gain practical skills to implement Data Mining techniques in their work.

Algorithms and Solutions Based on Computer Technology Carlos Jahn, László Ungvári, Igor Ilin, 2022-05-03 This book is a collection of papers compiled from the conference Algorithms and Computer Based Solutions held on June 8-9, 2021, at Peter the Great St. Petersburg Polytechnic University (SPbPU) St. Petersburg, Russia. The authors of the book are leading scientists from Russia, Germany, Netherlands, Greece, Hungary, Kazakhstan, Portugal, and Poland. The reader finds in the book information from experts on the most interesting trends in digitalization, issues of development and implementation of algorithms, IT and digital solutions for various areas of economy and science, prospects for supercomputers and exo-intelligent platforms, applied computer technologies in digital production, healthcare, and biomedical systems, digital medicine, logistics, and management, digital technologies for visualization and prototyping of physical objects. The book helps the reader to increase his or her expertise in the field of computer technologies discussed.

Social Data Analytics in the Cloud with AI Xuebin Wei, Xinyue Ye, 2024-12-30 The rise of cloud computing and Generative artificial intelligence (AI) has revolutionized data analytics pipelines. Analysts can collect, store, and process vast datasets in the cloud with high availability and scalability and also leverage Generative AI to query and visualize datasets in natural languages. This pioneering textbook provides a gateway for students, educators, and professionals to develop and enhance social data analytics capabilities with the latest cloud computing and AI technologies. The textbook introduces educational cloud resources from leading technology companies, begins with foundational concepts, and progresses to advanced techniques.

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upper level undergraduate and graduate students taking GIS Urban Informatics Social Science Data Analysis and Data Science courses faculty members teaching such courses and professionals and researchers interested in leveraging cloud computing and Generative AI in social data analytics

Implementation and Interpretation of Machine and Deep Learning to Applied Subsurface Geological Problems David A. Wood, 2025-02-18 Implementation and Interpretation of Machine and Deep Learning to Applied Subsurface Geological Problems Prediction Models Exploiting Well Log Information explores machine and deep learning models for subsurface geological prediction problems commonly encountered in applied resource evaluation and reservoir characterization tasks The book provides insights into how the performance of ML DL models can be optimized and sparse datasets of input variables enhanced and or rescaled to improve prediction performances A variety of topics are covered including regression models to estimate total organic carbon from well log data predicting brittleness indexes in tight formation sequences trapping mechanisms in potential sub surface carbon storage reservoirs and more Each chapter includes its own introduction summary and nomenclature sections along with one or more case studies focused on prediction model implementation related to its topic Addresses common applied geological problems focused on machine and deep learning implementation with case studies Considers regression classification and clustering machine learning methods and how to optimize and assess their performance considering suitable error and accuracy metric Contrasts the pros and cons of multiple machine and deep learning methods Includes techniques to improve the identification of geological carbon capture and storage reservoirs a key part of many energy transition strategies

Intelligent Information and Database Systems Ngoc Thanh Nguyen, Tien Khoa Tran, Ualsher Tukayev, Tzung-Pei Hong, Bogdan Trawiński, Edward Szczerbicki, 2022-12-08 This book constitutes the refereed proceedings of the 14th Asian Conference on Intelligent Information and Database Systems ACIIDS 2022 held Ho Chi Minh City Vietnam in November 2022 The 113 full papers accepted for publication in these proceedings were carefully reviewed and selected from 406 submissions The papers of the 2 volume set are organized in the following topical sections data mining and machine learning methods advanced data mining techniques and applications intelligent and contextual systems natural language processing network systems and applications computational imaging and vision decision support and control systems and data modeling and processing for industry 4 0 The accepted and presented papers focus on new trends and challenges facing the intelligent information and database systems community

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Research in Computational Molecular Biology Itsik Pe'er,2022-05-11 This book constitutes the proceedings of the 26th Annual Conference on Research in Computational Molecular Biology RECOMB 2022 held in San Diego CA USA in May 2022 The 17 regular and 23 short papers presented were carefully reviewed and selected from 188 submissions The papers report on original research in all areas of computational molecular biology and bioinformatics **Data Management, Analytics**

and Innovation Valentina Emilia Balas,Neha Sharma,Amlan Chakrabarti,2018-08-09 The book presents the latest high quality technical contributions and research findings in the areas of data management and smart computing big data management artificial intelligence and data analytics along with advances in network technologies It discusses state of the art topics as well as the challenges and solutions for future development It includes original and previously unpublished international research work highlighting research domains from different perspectives This book is mainly intended for researchers and practitioners in academia and industry

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