

Mastering Machine Learning With Scikit Learn

Hackeling Gavin

Mastering Machine Learning with scikit-learn
scikit-learn : Machine Learning Simplified
Numerical Python Python Machine Learning
Deep Learning Models for Economic Research
Intelligent Data Engineering and Automated Learning – IDEAL 2017
Designing and Developing Innovative Mobile Applications
Digital Personalized Health and Medicine
Computer Vision and Image Processing
Advances in Biometrics
Critical Approaches to Polycrisis
Internet of Things
Handbook of Research on Technological Developments for Cultural Heritage and eTourism
Applications
Exploring the Role of ICTs in Healthy Aging
Research Anthology on Clean Energy Management and Solutions
Pattern Recognition Primer
Foundations of Data Science
Optical Sensors for Structural Health Monitoring
Test-Driven Machine Learning
Sustainable Statistical and Data Science Methods and Practices
Gavin Hackeling Raul Garreta Robert Johansson Sebastian Raschka Andrzej Dudek Hujun Yin Samanta, Debabrata Christian Lovis Deep Gupta G.R. Sinha Tamsin Parnell Pramod R. Gunjal Rodrigues, João M. F. Mendes, David Management Association, Information Resources Karol Przystalski Dr. K. SivaRamaKrishna, Dr. N. Bharathi, Dr. Rajesh Kumar Verma, Dr. J. Krishna Paulo Antunes Justin Bozonier O. Olawale Awe

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Gavin Hackeling Raul Garreta Robert Johansson Sebastian Raschka Andrzej Dudek Hujun Yin Samanta, Debabrata Christian Lovis Deep Gupta G.R. Sinha Tamsin Parnell Pramod R. Gunjal Rodrigues, João M. F. Mendes, David Management Association, Information Resources Karol Przystalski Dr. K. SivaRamaKrishna, Dr. N. Bharathi, Dr. Rajesh Kumar Verma, Dr. J. Krishna Paulo Antunes Justin Bozonier O. Olawale Awe

use scikit learn to apply machine learning to real world problems about this book master popular machine learning models including k nearest neighbors random forests logistic regression k means naive bayes and artificial neural networks learn how to build and evaluate performance of efficient models using scikit learn practical guide to master your basics and learn from real life applications of machine learning who this book is for this book is intended for software engineers who want to understand how common machine learning algorithms work and develop an intuition

for how to use them and for data scientists who want to learn about the scikit learn api familiarity with machine learning fundamentals and python are helpful but not required what you will learn review fundamental concepts such as bias and variance extract features from categorical variables text and images predict the values of continuous variables using linear regression and k nearest neighbors classify documents and images using logistic regression and support vector machines create ensembles of estimators using bagging and boosting techniques discover hidden structures in data using k means clustering evaluate the performance of machine learning systems in common tasks in detail machine learning is the buzzword bringing computer science and statistics together to build smart and efficient models using powerful algorithms and techniques offered by machine learning you can automate any analytical model this book examines a variety of machine learning models including popular machine learning algorithms such as k nearest neighbors logistic regression naive bayes k means decision trees and artificial neural networks it discusses data preprocessing hyperparameter optimization and ensemble methods you will build systems that classify documents recognize images detect ads and more you will learn to use scikit learn s api to extract features from categorical variables text and images evaluate model performance and develop an intuition for how to improve your model s performance by the end of this book you will master all required concepts of scikit learn to build efficient models at work to carry out advanced tasks with the practical approach style and approach this book is motivated by the belief that you do not understand something until you can describe it simply work through toy problems to develop your understanding of the learning algorithms and models then apply your learnings to real life problems

implement scikit learn into every step of the data science pipeline about this book use python and scikit learn to create intelligent applications discover how to apply algorithms in a variety of situations to tackle common and not so common challenges in the machine learning domain a practical example based guide to help you gain expertise in implementing and evaluating machine learning systems using scikit learn who this book is for if you are a programmer and want to explore machine learning and data based methods to build intelligent applications and enhance your programming skills this is the course for you no previous experience with machine learning algorithms is required what you will learn review fundamental concepts including supervised and unsupervised experiences common tasks and performance metrics classify objects from documents to human faces and flower species based on some of their features using a variety of methods from support vector machines to naive bayes use decision trees to explain the main causes of certain phenomena such as passenger survival on the titanic evaluate the performance of machine learning systems in common tasks master algorithms of various levels of complexity and learn how to analyze data at the same time learn just enough math to think about the connections between various algorithms customize machine learning algorithms to fit your problem and learn how to modify them when the situation calls for it incorporate other packages from the python ecosystem to munge and visualize your dataset improve the way you build your models using parallelization techniques in detail machine learning the art of creating applications that learn from experience and data has been around for many years python is quickly becoming the go to

language for analysts and data scientists due to its simplicity and flexibility moreover within the python data space scikit learn is the unequivocal choice for machine learning the course combines an introduction to some of the main concepts and methods in machine learning with practical hands on examples of real world problems the course starts by walking through different methods to prepare your data be it a dataset with missing values or text columns that require the categories to be turned into indicator variables after the data is ready you ll learn different techniques aligned with different objectives be it a dataset with known outcomes such as sales by state or more complicated problems such as clustering similar customers finally you ll learn how to polish your algorithm to ensure that it s both accurate and resilient to new datasets you will learn to incorporate machine learning in your applications ranging from handwritten digit recognition to document classification examples are solved step by step using scikit learn and python by the end of this course you will have learned how to build applications that learn from experience by applying the main concepts and techniques of machine learning style and approach implement scikit learn using engaging examples and fun exercises and with a gentle and friendly but comprehensive learn by doing approach this is a practical course which analyzes compelling data about life health and death with the help of tutorials it offers you a useful way of interpreting the data that s specific to this course but that can also be applied to any other data this course is designed to be both a guide and a reference for moving beyond the basics of scikit learn

numerical python by robert johansson shows you how to leverage the numerical and mathematical modules in python and its standard library as well as popular open source numerical python packages like numpy fipy matplotlib and more to numerically compute solutions and mathematically model applications in a number of areas like big data cloud computing financial engineering business management and more after reading and using this book you ll get some takeaway case study examples of applications that can be found in areas like business management big data cloud computing financial engineering i e options trading investment alternatives and even games up until very recently python was mostly regarded as just a web scripting language well computational scientists and engineers have recently discovered the flexibility and power of python to do more big data analytics and cloud computing programmers are seeing python s immense use financial engineers are also now employing python in their work python seems to be evolving as a language that can even rival c fortran and pascal delphi for numerical and mathematical computations

unlock deeper insights into machine leaning with this vital guide to cutting edge predictive analytics about this book leverage python s most powerful open source libraries for deep learning data wrangling and data visualization learn effective strategies and best practices to improve and optimize machine learning systems and algorithms ask and answer tough questions of your data with robust statistical models built for a range of datasets who this book is for if you want to find out how to use python to start answering critical questions of your data pick up python machine learning whether you want to get started from scratch or want to extend your data science knowledge this is an essential and unmissable resource what you will learn explore how to use different machine learning models to ask different questions of

your data learn how to build neural networks using keras and theano find out how to write clean and elegant python code that will optimize the strength of your algorithms discover how to embed your machine learning model in a web application for increased accessibility predict continuous target outcomes using regression analysis uncover hidden patterns and structures in data with clustering organize data using effective pre processing techniques get to grips with sentiment analysis to delve deeper into textual and social media data in detail machine learning and predictive analytics are transforming the way businesses and other organizations operate being able to understand trends and patterns in complex data is critical to success becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace python can help you deliver key insights into your data its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success python machine learning gives you access to the world of predictive analytics and demonstrates why python is one of the world s leading data science languages if you want to ask better questions of data or need to improve and extend the capabilities of your machine learning systems this practical data science book is invaluable covering a wide range of powerful python libraries including scikit learn theano and keras and featuring guidance and tips on everything from sentiment analysis to neural networks you ll soon be able to answer some of the most important questions facing you and your organization style and approach python machine learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions it walks you through the key elements of python and its powerful machine learning libraries while demonstrating how to get to grips with a range of statistical models

in today s data driven world the ability to make sense of complex high dimensional datasets is crucial for economists and data scientists traditional quantitative methods while powerful often struggle to keep up with the complexities of modern economic challenges this book bridges this gap integrating cutting edge machine learning techniques with established economic analysis to provide new more accurate insights the book offers a comprehensive approach to understanding and applying neural networks and deep learning models in the context of conducting economic research it starts by laying the groundwork with essential quantitative methods such as cluster analysis regression and factor analysis then demonstrates how these can be enhanced with deep learning techniques like recurrent neural networks rnns convolutional neural networks cnns and transformers by guiding readers through real world examples complete with python code and access to datasets it showcases the practical benefits of neural networks in solving complex economic problems such as fraud detection sentiment analysis stock price forecasting and inflation factor analysis importantly the book also addresses critical concerns about the black box nature of deep learning offering interpretability techniques like local interpretable model agnostic explanations lime and shapley additive explanations shap to demystify model predictions the book is essential reading for economists data scientists and professionals looking to deepen their understanding of ai s role in economic modeling it is also an accessible resource for non experts interested in how machine learning is

transforming economic analysis

this book constitutes the refereed proceedings of the 18th international conference on intelligent data engineering and automated learning ideal 2017 held in guilin china in october november 2017 the 65 full papers presented were carefully reviewed and selected from 110 submissions these papers provided a sample of latest research outcomes in data engineering and automated learning from methodologies frameworks and techniques to applications in addition to various topics such as evolutionary algorithms deep learning neural networks probabilistic modelling particle swarm intelligence big data analytics and applications in image recognition regression classification clustering medical and biological modelling and prediction text processing and social media analysis

since mobile communication has become so ingrained in our daily lives many people find it difficult to function without a cellphone when the phone first came out the only commonly used features were calling and sending text messages texts the intelligent mobile phone has proven to be a multipurpose tool that works best for communication and aids in learning earning and having fun this in turn prompted several developers to consider creating mobile applications designing and developing innovative mobile applications focuses on the fundamentals of the android os and its device features the deployment of any android application and the activities and intents of android programming covering key topics such as mobile pages software development and communication this premier reference source is ideal for computer scientists industry professionals researchers academicians scholars practitioners instructors and students

digital health and medical informatics have grown in importance in recent years and have now become central to the provision of effective healthcare around the world this book presents the proceedings of the 30th medical informatics europe conference mie this edition of the conference hosted by the european federation for medical informatics efmi since the 1970s was due to be held in geneva switzerland in april 2020 but as a result of measures to prevent the spread of the covid19 pandemic the conference itself had to be cancelled nevertheless because this collection of papers offers a wealth of knowledge and experience across the full spectrum of digital health and medicine it was decided to publish the submissions accepted in the review process and confirmed by the scientific program committee for publication and these are published here as planned the 232 papers are themed under 6 section headings biomedical data tools and methods supporting care delivery health and prevention precision medicine and public health human factors and citizen centered digital health and ethics legal and societal aspects a 7th section deals with the swiss personalized health network and section 8 includes the 125 posters accepted for the conference offering an overview of current trends and developments in digital health and medical informatics the book provides a valuable information resource for researchers and health practitioners alike

this two volume set ccis 1776 1777 constitutes the refereed proceedings of the 7th international conference on computer vision and image processing cvip 2022 held in nagpur india november 4 6 2022 the 110 full papers and 11 short papers were

carefully reviewed and selected from 307 submissions out of 121 papers 109 papers are included in this book the topical scope of the two volume set focuses on medical image analysis image video processing for autonomous vehicles activity detection recognition human computer interaction segmentation and shape representation motion and tracking image video scene understanding image video retrieval remote sensing hyperspectral image processing face iris emotion sign language and gesture recognition etc

this book provides a framework for robust and novel biometric techniques along with implementation and design strategies the theory principles pragmatic and modern methods and future directions of biometrics are presented along with in depth coverage of biometric applications in driverless cars automated and ai based systems iot and wearable devices additional coverage includes computer vision and pattern recognition cybersecurity cognitive computing soft biometrics and the social impact of biometric technology the book will be a valuable reference for researchers faculty and practicing professionals working in biometrics and related fields such as image processing computer vision and artificial intelligence highlights robust and novel biometrics techniques provides implementation strategies and future research directions in the field of biometrics includes case studies and emerging applications

this book critically examines how polycrisis is recontextualised and ab used in contemporary discourse from across europe the book brings together established and emerging researchers in the field of discourse studies from around the world to explore the accelerating interconnected challenges of climate change conflict risk brexit democracy covid 19 the rising cost of living and migration recognising that polycrisis is socially produced constructed and dismantled through discourse the authors contemplate the discursive manifestations of crisis falling under the banner of critical discourse studies cds the methodological approaches are heterogeneous including but not limited to corpus assisted cds and multimodal cds the data are equally varied ranging from focus groups to no war letters media representations to environmental protection commercials the volume provides a comprehensive consideration of how critical approaches to discourse can help to make sense of resist and respond to poly crisis and it will be of interest to students and scholars working in the remit of discourse studies with a particular interest in crisis communication

this book addresses the fundamental technologies architectures application domains and future research directions of the internet of things iot it also discusses how to create your own iot system according to applications requirements and it presents a broader view of recent trends in the iot domain and open research issues this book encompasses various research areas such as wireless networking advanced signal processing iot and ubiquitous computing internet of things theory to practice discusses the basics and fundamentals of iot and real time applications as well as the associated challenges and open research issues the book includes several case studies about the use of iot in day to day life the authors review various advanced computing technologies such as cloud computing fog computing edge computing and big data analytics that will play crucial roles in future iot based services the book provides a detailed role of blockchain technology narrowband iot nb iot wireless body area network wban lora a longrange low power platform and industrial iot iiot in the

5g world this book is intended for university college students as well as amateur electronic hobbyists and industry professionals who are looking to stay current in the iot domain

tourism is one of the most rapidly evolving industries of the 21st century the integration of technological advancements plays a crucial role in the ability for many countries all over the world to attract visitors and maintain a distinct edge in a highly competitive market the handbook of research on technological developments for cultural heritage and tourism applications is a pivotal reference source for the latest research findings on the utilization of information and communication technologies in tourism featuring extensive coverage on relevant areas such as smart tourism user interfaces and social media this publication is an ideal resource for policy makers academicians researchers advanced level students and technology developers seeking current research on new trends in ict systems and application and tourism

technological innovation continues to be present in all areas of our lives offering seemingly endless possibilities as technology is increasingly implemented in healthcare applications it is necessary to understand whether users respond to a predefined organizational strategy of model of care or whether they will become wholly dependent on the healthcare technology this understanding is especially crucial when dealing with the possibility of generating inequities especially with individuals that are elderly exploring the role of icts in healthy aging is a collection of innovative research that proposes the detailed study of a strategic framework for the development of technological innovation in healthcare and for its adoption by health organizations while highlighting topics including emotional health quality of life and telemedicine this book is ideally designed for physicians nurses hospital staff medical professionals home care providers hospital administrators academicians students and researchers moreover the book will provide insights and support executives concerned with the management of expertise knowledge information and organizational development in different types of healthcare units at various levels

energy usage and consumption continue to rise globally each year with the most efficient and cost effective energy sources causing huge impacts to the environment in an effort to mitigate harmful effects to the environment implementing clean energy resources and utilizing green energy management strategies have become worldwide initiatives with many countries from all regions quickly becoming leaders in renewable energy usage still not every energy resource is without flaws researchers must develop effective and low cost strategies for clean energy in order to find the balance between production and consumption the research anthology on clean energy management and solutions provides in depth research that explores strategies and techniques used in the energy production field to optimize energy efficiency in order to maintain clean and safe use while delivering ample energy coverage the anthology also seeks solutions to energy that have not yet been optimized or are still produced in a way that is harmful to the environment covering topics such as hydrogen fuel cells renewable energy solar power solar systems cost savings and climate protection this text is essential for electrical engineers nuclear engineers environmentalists managers policymakers government officials professionals in the energy industry researchers academicians and students looking for the latest research on clean

energy management

this textbook provides semester length coverage of pattern recognition classification accessible to everyone who would like to understand how pattern recognition and machine learning works it explores the most commonly used classification methods in an intelligible way unlike other books available for this course this one explains from top to bottom each method with all needed details every method described is explained with examples in python the presentation is designed to be highly accessible to students from a variety of disciplines with no experience in machine learning each chapter contains easy to understand code samples as well as exercises to consolidate and test knowledge

foundations of data science provides the essential principles tools and techniques used to collect process analyze and interpret data for informed decision making it integrates concepts from statistics mathematics and computer science to understand data patterns and derive meaningful insights the course typically covers topics such as data collection and cleaning exploratory data analysis probability statistical inference data visualization and basic machine learning techniques it lays the groundwork for advanced studies and applications in fields like artificial intelligence business analytics and big data technologies helping learners develop strong analytical and problem solving skills

the evolution and need for the preservation and maintenance of existing structures recent or historical has fostered research in the area of structural monitoring translated into the development of new techniques equipment and sensors early detection of damage and accurate assessment of structural safety requires monitoring systems the data from which can be used to calibrate numerical models for structural analysis and to assess safety data are obtained under real time conditions considering a group of parameters related to structural properties such as stresses accelerations deformations and displacements the analysis of structural properties is particularly relevant when the structure is subjected to extreme events earthquakes wind fire and explosions among others or repeated loads road rail air traffic vibrations induced by equipment and machines since they affect the structural integrity and put the users at risk in order to prevent the severe damage and eventual collapse of structures and consequent human material and economic losses the implementation of monitoring systems becomes a valuable tool for today s society monitoring of structures is becoming increasingly important not only as preventive action but also due to actual economic and sustainability concerns to ensure a safer and more comfortable built environment

control your machine learning algorithms using test driven development to achieve quantifiable milestones about this book build smart extensions to pre existing features at work that can help maximize their value quantify your models to drive real improvement take your knowledge of basic concepts such as linear regression and naive bayes classification to the next level and productionalize their models play what if games with your models and techniques by following the test driven exploration process who this book is for this book is intended for data technologists scientists analysts or developers with previous machine learning experience who are also

comfortable reading code in python you may be starting or have already started a machine learning project at work and are looking for a way to deliver results quickly to enable rapid iteration and improvement those looking for examples of how to isolate issues in models and improve them will find ideas in this book to move forward what you will learn get started with an introduction to test driven development and familiarize yourself with how to apply these concepts to machine learning build and test a neural network deterministically and learn to look for niche cases that cause odd model behaviour learn to use the multi armed bandit algorithm to make optimal choices in the face of an enormous amount of uncertainty generate complex and simple random data to create a wide variety of test cases that can be codified into tests develop models iteratively even when using a third party library quantify model quality to enable collaboration and rapid iteration adopt simpler approaches to common machine learning algorithms take behaviour driven development principles to articulate test intent in detail machine learning is the process of teaching machines to remember data patterns using them to predict future outcomes and offering choices that would appeal to individuals based on their past preferences machine learning is applicable to a lot of what you do every day as a result you can't take forever to deliver your first iteration of software learning to build machine learning algorithms within a controlled test framework will speed up your time to deliver quantify quality expectations with your clients and enable rapid iteration and collaboration this book will show you how to quantifiably test machine learning algorithms the very different foundational approach of this book starts every example algorithm with the simplest thing that could possibly work with this approach seasoned veterans will find simpler approaches to beginning a machine learning algorithm you will learn how to iterate on these algorithms to enable rapid delivery and improve performance expectations the book begins with an introduction to test driving machine learning and quantifying model quality from there you will test a neural network predict values with regression and build upon regression techniques with logistic regression you will discover how to test different approaches to naive bayes and compare them quantitatively along with how to apply oop object oriented programming and oop patterns to test driven code leveraging scikit learn finally you will walk through the development of an algorithm which maximizes the expected value of profit for a marketing campaign by combining one of the classifiers covered with the multiple regression example in the book style and approach an example driven guide that builds a deeper knowledge and understanding of iterative machine learning development test by test each topic develops solutions using failing tests to illustrate problems these are followed by steps to pass the tests simply and straightforwardly topics which use generated data explore how the data was generated alongside explanations of the assumptions behind different machine learning techniques

this volume gathers papers presented at the lisa 2020 sustainability symposium in kumasi ghana may 26 2022 they focus on sustainable methods and practices of using statistics and data science to address real world problems from utilizing social media for statistical collaboration to predicting obesity among rural women and from analyzing inflation in nigeria using machine learning to teaching data science in africa this book explores the intersection of data statistics and sustainability with practical

applications code snippets and case studies this book offers valuable insights for researchers policymakers and data enthusiasts alike the lisa 2020 global network aims to enhance statistical and data science capability in developing countries through the creation of a network of collaboration laboratories also known as stat labs these stat labs are intended to serve as engines for development by training the next generation of collaborative statisticians and data scientists providing research infrastructure for researchers data producers and decision makers and enabling evidence based decision making that has a positive impact on society the research conducted at lisa 2020 focuses on practical methods and applications for sustainable growth of statistical capacity in developing nations

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Conclusion

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FAQs

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