

Mastering Machine Learning With Scikit Learn

Hackeling Gavin

Python Machine Learning Test-Driven Machine Learning Critical Approaches to Polycrisis Learning Cascading Mastering Machine Learning with scikit-learn MACHINE LEARNING DEEP LEARNING : Konsep dan Penerapannya scikit-learn : Machine Learning Simplified scikit-learn (2018) scikit-learn ji qi xue xi scikit-learn Sebastian Raschka Justin Bozonier Tamsin Parnell Michael Covert Gavin Hackeling NARAYAN CHANGDER Prof. Dr. Ir. Widodo Budiharto, S.Si., M.Kom., SMIEEE Raul Garreta Posts & Telecom Press Gavin Hackeling

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unlock deeper insights into machine learning 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

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 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 is intended for software developers system architects and analysts big data project managers and data scientists who wish to deploy big data solutions using the cascading framework you must have a basic understanding of the big data paradigm and should be familiar with java development techniques

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

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this mcq format many are not well versed in it to achieve success in mcq tests quizzes and trivia challenges one requires test taking techniques and skills in addition to subject knowledge it also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations whether you have studied the subject on your own read for pleasure or completed coursework it will assess your knowledge and prepare you for competitive exams quizzes trivia and more

deep learning sebagai cabang dari kecerdasan artifisial al merupakan pendekatan baru yang andal untuk mengenali pola dari data bervolume besardan bertambah secara cepat selama beberapa tahun terakhir deep learning yang merupakan bagian dari machine learning telah menjadi metode unggul untuk sebagian besar penyelesaian masalah yang kompleks buku deep learning konsep dan penerapannya merupakan buku ajar yang disiapkan penulis bagi siapa saja yang ingin menguasai deep learning materi ini merupakan salah satu bagian materi wajib bagi mahasiswa maupun dosen di bidangteknik informatika sistem informasi serta mipa dan teknik buku ini dibuat untuk memenuhi kebutuhan pembaca yang kesulitan memperoleh buku yang mudah dipahami dengan berbagai contoh dan mudah diterapkan menggunakan bahasa pemrograman python

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

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