Gavin Hackeling

Mastering Machine Learning with scikit-learn

Second Edition

Learn to implement and evaluate machine learning solutions with scikit-learn

Packt

Mastering Machine Learning With Scikit Learn
Hackeling Gavin

Parag Saxena

Mastering Machine Learning With Scikit Learn Hackeling Gavin:

Mastering Machine Learning with scikit-learn Gavin Hackeling,2017-07-24 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 scikit-learn : Machine Learning Simplified Raul Garreta,Guillermo Moncecchi,Trent Hauck,Gavin Hackeling,2017-11-10 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 *Critical Approaches to Polycrisis* Tamsin Parnell,Tom Van Hout,Dario Del Fante,2025-02-12 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

Test-Driven Machine Learning Justin Bozonier,2015-11-27 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 Python Machine Learning Sebastian Raschka,2015-09-23 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 **MACHINE LEARNING** NARAYAN

CHANGDER,2022-12-20 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the best preparation material for aspirants This book is an engaging quiz eBook for all and offers something for everyone This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information Use this invaluable book to test your subject matter expertise Multiple choice exams are a common assessment method that all prospective candidates must be familiar with in today s academic environment Although the majority of students are accustomed to 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

Learning Cascading Michael Covert,Victoria Loewengart,2015-05-29 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 **scikit-learn□□□□(□2□)** Posts & Telecom Press,Gavin Hackeling,2024-05-23 Python scikit learn Key Features Book Description Python scikit learn Python 14 scikit learn K K scikit learn What you will learn scikit learn API scikit learn Who this book is for Python **Python□□__□__——_□_□□□Kaggle__□□ □□□□□_□**,2019-02-01 _ _ __ _ __ __ _ _ _ _ Python_ _ _ _ _ __ __ _ ___ _ __ _ _ _ Scikit learn NLTK Pandas gensim XGBoost Google Tensorflow _ 4 1 _ _ __ Python_ _ 2 _ _ Scikit learn _ _ __ 3 __ _ _ _ _ __ _ 4 __ Kaggle __ _ _ _ __ _ __ _ **scikit-learn ji qi xue xi □□**,2019 14 scikit learn K K

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automation and hybrid modeling approaches By combining theory with real world applications the book equips data professionals with the tools to unlock the full potential of machine learning models Whether working with structured datasets or integrating deep learning features this guide provides actionable insights to tackle any data transformation challenge effectively What you will learn Create data driven features for better ML models Apply Scikit Learn pipelines for automation Use clustering and feature selection effectively Handle imbalanced datasets with advanced techniques Leverage regularization for feature selection Utilize deep learning for feature extraction Who this book is for Data scientists machine learning engineers and analytics professionals looking to improve predictive model performance will find this book invaluable Prior experience with Python and basic machine learning concepts is recommended Familiarity with Scikit Learn is helpful but not required **Machine Learning with scikit-learn Quick Start Guide** Kevin Jolly,2018-10-30 Deploy supervised and unsupervised machine learning algorithms using scikit learn to perform classification regression and clustering Key FeaturesBuild your first machine learning model using scikit learnTrain supervised and unsupervised models using popular techniques such as classification regression and clusteringUnderstand how scikit learn can be applied to different types of machine learning problemsBook Description Scikit learn is a robust machine learning library for the Python programming language It provides a set of supervised and unsupervised learning algorithms This book is the easiest way to learn how to deploy optimize and evaluate all of the important machine learning algorithms that scikit learn provides This book teaches you how to use scikit learn for machine learning You will start by setting up and configuring your machine learning environment with scikit learn To put scikit learn to use you will learn how to implement various supervised and unsupervised machine learning models You will learn classification regression and clustering techniques to work with different types of datasets and train your models Finally you will learn about an effective pipeline to help you build a machine learning project from scratch By the end of this book you will be confident in building your own machine learning models for accurate predictions What you will learnLearn how to work with all scikit learn s machine learning algorithmsInstall and set up scikit learn to build your first machine learning modelEmploy Unsupervised Machine Learning Algorithms to cluster unlabelled data into groupsPerform classification and regression machine learningUse an effective pipeline to build a machine learning project from scratchWho this book is for This book is for aspiring machine learning developers who want to get started with scikit learn Intermediate knowledge of Python programming and some fundamental knowledge of linear algebra and probability will help *Mastering Scikit-Learn* GILBERT. GUTIERREZ,2025-02-05 AI from Scratch Step by Step Guide to Mastering Artificial Intelligence Book 5 Unlock the power of machine learning with Scikit Learn Python s most popular ML library Whether you re a beginner looking to understand the basics or a professional aiming to refine your skills Mastering Scikit Learn Practical ML for Everyone is your ultimate guide to building optimizing and deploying machine learning models effectively This book is the fifth installment in the AI from Scratch series designed to provide a structured hands on approach

to mastering artificial intelligence With real world case studies step by step tutorials and best practices you ll gain the confidence to apply machine learning to real business and research problems What You ll Learn Part 1 Getting Started with Scikit Learn Introduction to machine learning and the Scikit Learn ecosystem Setting up your Python environment and loading datasets Data preprocessing handling missing values feature scaling and encoding categorical variables Part 2 Core Machine Learning Models Implementing linear regression logistic regression and decision trees Building powerful ensemble models like Random Forest and Gradient Boosting Understanding Support Vector Machines SVMs and clustering techniques K Means DBSCAN PCA Part 3 Advanced Techniques Optimization Feature engineering and recursive feature elimination Hyperparameter tuning with GridSearchCV and Bayesian optimization Handling imbalanced data anomaly detection and data augmentation Automating ML workflows with Pipelines and AutoML Part 4 Real World Applications Deployment End to end machine learning project case studies Integrating Scikit Learn with TensorFlow and PyTorch Deploying ML models using Flask FastAPI and cloud platforms Avoiding common pitfalls and optimizing model performance Who Should Read This Book Beginners Students Learn machine learning from the ground up with hands on coding examples Data Scientists ML Engineers Deepen your understanding of model tuning and feature engineering Software Developers Implement Scikit Learn models into real world applications Business Analysts AI Enthusiasts Discover how ML models can drive data driven decisions Why Choose This Book Step by Step Learning Practical examples and code snippets guide you through each concept Real World Case Studies Apply machine learning to real datasets and projects Hands on Approach Learn by doing with interactive exercises and Python implementations Industry Best Practices Avoid common pitfalls and optimize your ML models for accuracy and efficiency Part of the AI from Scratch Series A structured learning path from beginner to AI mastery Start Your Machine Learning Journey Today Whether you re exploring machine learning for the first time or looking to enhance your skills Mastering Scikit Learn provides the tools techniques and knowledge you need to succeed Take the next step in your AI journey Master Scikit Learn and build powerful machine learning models today *Ultimate Machine Learning with Scikit-Learn: Unleash the Power of Scikit-Learn and Python to Build Cutting-Edge Predictive Modeling Applications and Unlock Deeper Insights Into Machine Learning* Parag Saxena,2024-05-04 Master the Art of Data Munging and Predictive Modeling for Machine Learning with Scikit Learn Key Features Comprehensive coverage of complete predictive modeling lifecycle from data munging to deployment Gain insights into the theoretical foundations underlying powerful machine learning algorithms Master Python s versatile Scikit Learn library for robust data analysis Book Description Ultimate Machine Learning with Scikit Learn is a definitive resource that offers an in depth exploration of data preparation modeling techniques and the theoretical foundations behind powerful machine learning algorithms using Python and Scikit Learn Beginning with foundational techniques you ll dive into essential skills for effective data preprocessing setting the stage for robust analysis Next logistic regression and decision trees equip you with the tools to delve deeper into

predictive modeling ensuring a solid understanding of fundamental methodologies You will master time series data analysis followed by effective strategies for handling unstructured data using techniques like Naive Bayes Transitioning into real time data streams you ll discover dynamic approaches with K nearest neighbors for high dimensional data analysis with Support Vector Machines SVMs Alongside you will learn to safeguard your analyses against anomalies with isolation forests and harness the predictive power of ensemble methods in the domain of stock market data analysis By the end of the book you will master the art of data engineering and ML pipelines ensuring you re equipped to tackle even the most complex analytics tasks with confidence What you will learn Master fundamental data preprocessing techniques tailored for both structured and unstructured data Develop predictive models utilizing a spectrum of methods including regression classification and clustering Tackle intricate data challenges by employing Support Vector Machines SVMs decision trees and ensemble learning approaches Implement advanced anomaly detection methodologies and explore emerging techniques like neural networks Build efficient data pipelines optimized for handling big data and streaming analytics Solidify core machine learning principles through practical examples and illustrations Table of Contents1 Data Preprocessing with Linear Regression 2 Structured Data and Logistic Regression 3 Time Series Data and Decision Trees 4 Unstructured Data Handling and Naive Bayes 5 Real time Data Streams and K Nearest Neighbors 6 Sparse Distributed Data and Support Vector Machines 7 Anomaly Detection and Isolation Forests 8 Stock Market Data and Ensemble Methods 9 Data Engineering and ML Pipelines for Advanced Analytics Index **Mastering Machine Learning with Python and Scikit-Learn** Katarina Juric,Rogers Isaacson,2025-04-14 Unlock the power of machine learning with Mastering Machine Learning with Python and Scikit Learn This in depth guide will walk you through the process of building machine learning models from the ground up using Scikit Learn one of the most widely used Python libraries for machine learning Whether you re a beginner looking to dive into machine learning or an experienced data scientist seeking to master advanced techniques this book will equip you with the tools and knowledge to build efficient and scalable models for real world applications Scikit Learn provides simple and efficient tools for data analysis and machine learning With its extensive functionality this book will teach you how to implement various machine learning algorithms such as classification regression clustering and dimensionality reduction You ll also explore key concepts like feature engineering model evaluation hyperparameter tuning and how to apply these methods to solve real world problems Inside you ll learn The fundamentals of machine learning and the Scikit Learn library How to preprocess data including feature scaling encoding categorical variables and handling missing values The principles behind supervised learning algorithms like linear regression decision trees and support vector machines SVMs Techniques for unsupervised learning including k means clustering and principal component analysis PCA How to evaluate machine learning models using cross validation metrics like accuracy precision recall and confusion matrices Advanced topics such as ensemble learning random forests and boosting methods Hyperparameter tuning techniques like GridSearchCV and

RandomizedSearchCV for improving model performance How to deploy machine learning models and integrate them into production systems By the end of this book you ll have the expertise to build and deploy machine learning models from simple to complex using Python and Scikit Learn Whether you re working on business analytics predictive modeling or artificial intelligence projects Mastering Machine Learning with Python and Scikit Learn will give you the skills to tackle a wide range of machine learning problems Key Features Master machine learning algorithms and techniques using Python and Scikit Learn Step by step guidance for building evaluating and tuning machine learning models Practical examples and real world case studies to apply machine learning to solve problems Advanced topics such as ensemble methods hyperparameter tuning and model deployment Best practices for preprocessing data feature selection and evaluating model performance Start mastering machine learning today with Mastering Machine Learning with Python and Scikit Learn and take your data science and machine learning skills to the next level *Hands-on Scikit-Learn for Machine Learning Applications* David Paper,2019-11-16 Aspiring data science professionals can learn the Scikit Learn library along with the fundamentals of machine learning with this book The book combines the Anaconda Python distribution with the popular Scikit Learn library to demonstrate a wide range of supervised and unsupervised machine learning algorithms Care is taken to walk you through the principles of machine learning through clear examples written in Python that you can try out and experiment with at home on your own machine All applied math and programming skills required to master the content are covered in this book In depth knowledge of object oriented programming is not required as working and complete examples are provided and explained Coding examples are in depth and complex when necessary They are also concise accurate and complete and complement the machine learning concepts introduced Working the examples helps to build the skills necessary to understand and apply complexmachine learning algorithms Hands on Scikit Learn for Machine Learning Applications is an excellent starting point for those pursuing a career in machine learning Students of this book will learn the fundamentals that are a prerequisite to competency Readers will be exposed to the Anaconda distribution of Python that is designed specifically for data science professionals and will build skills in the popular Scikit Learn library that underlies many machine learning applications in the world of Python What You ll Learn Work with simple and complex datasets common to Scikit Learn Manipulate data into vectors and matrices for algorithmic processing Become familiar with the Anaconda distribution used in data science Apply machine learning with Classifiers Regressors and Dimensionality Reduction Tune algorithms and find the best algorithms for each dataset Load data from and save to CSV JSON Numpy and Pandas formats Who This Book Is For The aspiring data scientist yearning to break into machine learning through mastering the underlying fundamentals that are sometimes skipped over in the rush to be productive Some knowledge of object oriented programming and very basic applied linear algebra will make learning easier although anyone can benefit from this book *Machine Learning with Scikit-learn* Jeganathan Swaminathan,2018 Machine Learning with PyTorch and Scikit-Learn

Sebastian Raschka,Yuxi (Hayden) Liu,Vahid Mirjalili,2022-02-25 This book of the bestselling and widely acclaimed Python Machine Learning series is a comprehensive guide to machine and deep learning using PyTorch s simple to code framework Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Learn applied machine learning with a solid foundation in theory Clear intuitive explanations take you deep into the theory and practice of Python machine learning Fully updated and expanded to cover PyTorch transformers XGBoost graph neural networks and best practices Book DescriptionMachine Learning with PyTorch and Scikit Learn is a comprehensive guide to machine learning and deep learning with PyTorch It acts as both a step by step tutorial and a reference you ll keep coming back to as you build your machine learning systems Packed with clear explanations visualizations and examples the book covers all the essential machine learning techniques in depth While some books teach you only to follow instructions with this machine learning book we teach the principles allowing you to build models and applications for yourself Why PyTorch PyTorch is the Pythonic way to learn machine learning making it easier to learn and simpler to code with This book explains the essential parts of PyTorch and how to create models using popular libraries such as PyTorch Lightning and PyTorch Geometric You will also learn about generative adversarial networks GANs for generating new data and training intelligent agents with reinforcement learning Finally this new edition is expanded to cover the latest trends in deep learning including graph neural networks and large scale transformers used for natural language processing NLP This PyTorch book is your companion to machine learning with Python whether you re a Python developer new to machine learning or want to deepen your knowledge of the latest developments What you will learn Explore frameworks models and techniques for machines to learn from data Use scikit learn for machine learning and PyTorch for deep learning Train machine learning classifiers on images text and more Build and train neural networks transformers and boosting algorithms Discover best practices for evaluating and tuning models Predict continuous target outcomes using regression analysis Dig deeper into textual and social media data using sentiment analysis Who this book is for If you have a good grasp of Python basics and want to start learning about machine learning and deep learning then this is the book for you This is an essential resource written for developers and data scientists who want to create practical machine learning and deep learning applications using scikit learn and PyTorch Before you get started with this book you ll need a good understanding of calculus as well as linear algebra *Hands-On Machine Learning with Scikit-Learn* Amir Ali,2019-03-10 Hands On Machine Learning with Scikit Learn Book Description In this Book Hands On Machine Learning with Scikit Learn The author covered both Supervised and Unsupervised Machine Learning Algorithms The authors explain both Theoretical and Practical Implementation in depth and Explain Each Algorithm from Scratch For Practical Implementation uses the Scikit learn Library in this book Scikit Learn is a robust machine learning library for the Python programming language It provides a set of supervised and unsupervised learning algorithms This book is the easiest way to learn how to deploy optimize and evaluate all of the important machine learning algorithms that scikit learn provides

This book teaches you how to use scikit learn for machine learning You will start by setting up and configuring your machine learning environment with scikit learn To put scikit learn to use you will learn how to implement variously supervised and unsupervised machine learning models You will learn classification regression Association Rule clustering techniques and Dimensionality Reduction Techniques to work with different types of datasets and train your models Key Features Learn Supervised Unsupervised Machine Learning Algorithms in Depth Build your first machine learning model using scikit learn Train supervised and unsupervised models using popular techniques such as classification regression clustering and Dimensionality Reduction Understand how scikit learn can be applied to different types of machine learning problems What you will learn Perform classification and regression machine learning Employ Unsupervised Machine Learning Algorithms to cluster unlabeled data into groups Apply the Dimensionality Reduction Technique for reducing the Dimensionality of the dataset Who this book is for Anyone who interesting in Machine Learning Fundamental knowledge of linear algebra and probability will help Intermediate knowledge of Python programming Table of Contents 1 Introduction to Machine Learning 2 Linear Regression 3 Na ve Bayes 4 Decision Tree classification Regression 5 Random Forrest classification Regression 6 K Nearest Neighbors 7 Logistic Regression 8 Support Vector Machine 9 Association Rule Apriori Eclat 10 Clustering K Mean Hierarchical 11 Dimensionality Reduction PCA LDA *The The Machine Learning Workshop* Hyatt Saleh,2020-07-22 Take a comprehensive and step by step approach to understanding machine learning Key FeaturesDiscover how to apply the scikit learn uniform API in all types of machine learning modelsUnderstand the difference between supervised and unsupervised learning modelsReinforce your understanding of machine learning concepts by working on real world examplesBook Description Machine learning algorithms are an integral part of almost all modern applications To make the learning process faster and more accurate you need a tool flexible and powerful enough to help you build machine learning algorithms quickly and easily With The Machine Learning Workshop you ll master the scikit learn library and become proficient in developing clever machine learning algorithms The Machine Learning Workshop begins by demonstrating how unsupervised and supervised learning algorithms work by analyzing a real world dataset of wholesale customers Once you ve got to grips with the basics you ll develop an artificial neural network using scikit learn and then improve its performance by fine tuning hyperparameters Towards the end of the workshop you ll study the dataset of a bank s marketing activities and build machine learning models that can list clients who are likely to subscribe to a term deposit You ll also learn how to compare these models and select the optimal one By the end of The Machine Learning Workshop you ll not only have learned the difference between supervised and unsupervised models and their applications in the real world but you ll also have developed the skills required to get started with programming your very own machine learning algorithms What you will learnUnderstand how to select an algorithm that best fits your dataset and desired outcomeExplore popular real world algorithms such as K means Mean Shift and DBSCANDiscover different approaches to solve machine learning classification

problemsDevelop neural network structures using the scikit learn packageUse the NN algorithm to create models for predicting future outcomesPerform error analysis to improve your model s performanceWho this book is for The Machine Learning Workshop is perfect for machine learning beginners You will need Python programming experience though no prior knowledge of scikit learn and machine learning is necessary

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Mastering Machine Learning With Scikit Learn Hackeling Gavin Introduction

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