
Software Optimization Cookbook Second Edition

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Applied
Optimization
with MATLAB
Programming
Morgan
Kaufmann

Learn to use scikit-learn operations and functions for Machine Learning and deep learning applications. About This Book Handle a variety of machine learning tasks effortlessly by leveraging the power of scikit-learn Perform supervised and unsupervised learning with ease, and evaluate the performance of your model Practical, easy to understand recipes aimed at

helping you choose the right machine learning algorithm. This Book Is For Data Analysts already familiar with Python but not so much with scikit-learn, who want quick solutions to the common machine learning problems will find this book to be very useful. If you are a Python programmer who wants to take a dive into the world of machine learning in a practical manner, this book will help you too. What You Will Learn Build predictive models in minutes by using scikit-learn. Understand the differences and relationships between Classification and Regression, two types of Supervised Learning. Use distance metrics to predict in Clustering, a type of Unsupervised Learning. Find points with similar characteristics with Nearest Neighbors. Use automation and cross-validation to find a best model and focus on it for a data product. Choose among the best algorithm of many or use them together in an ensemble. Create your own estimator with the simple syntax of sklearn. Explore the feed-forward neural networks available in scikit-learn. In Detail Python is quickly becoming the go-to language for analysts and data scientists due to its simplicity and flexibility, and within the Python data space, scikit-learn is the unequivocal choice for machine learning. This

book includes walk throughs and solutions to the common as well as the not-so-common problems in machine learning, and how scikit-learn can be leveraged to perform various machine learning tasks effectively. The second edition begins with taking you through recipes on evaluating the statistical properties of data and generates synthetic data for machine learning modelling. As you progress through the

chapters, you will come across recipes that will teach you to implement techniques like data pre-processing, linear regression, logistic regression, K-NN, Naive Bayes, classification, decision trees, Ensembles and much more. Furthermore, you'll learn to optimize your models with multi-class classification, cross validation, model evaluation and dive deeper in to implementing

deep learning with scikit-learn. Along with covering the enhanced features on model section, API and new features like classifiers, regressors and estimators the book also contains recipes on evaluating and fine-tuning the performance of your model. By the end of this book, you will have explored plethora of features offered by scikit-learn for Python to solve any machine learning problem you come across.

Style and Approach This book consists of practical recipes on scikit-learn that target novices as well as intermediate users. It goes deep into the technical issues, covers additional protocols, and many more real-live examples so that you are able to implement it in your daily life scenarios.

Git Version

Control

Cookbook

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No one has
done more to
conquer the

performance limitations of the PC than Michael Abrash, a software engineer for Microsoft. His complete works are contained in this massive volume, including everything he has written about performance coding and real-time graphics. The CD-ROM contains the entire text in Adobe Acrobat 3.0 format,

allowing fast searches for specific facts.

OpenGL 4 Shading Language

Cookbook, Second Edition "O'Reilly Media, Inc."

The hands-on guide to high-performance coding and algorithm optimization. This hands-on guide to software optimization introduces state-of-the-art solutions for every key aspect of software performance - both code-based and algorithm-based.

Two leading HP software performance experts offer comparative optimization strategies for RISC and for the new Explicitly Parallel Instruction Computing (EPIC) design used in Intel

IA-64 processors. Using many practical examples, they offer specific techniques for: Predicting and measuring performance - and identifying your best optimization opportunities Storage optimization: cache, system memory, virtual memory, and I/O Parallel processing: distributed-memory and shared-memory (SMP and ccNUMA) Compilers and loop optimization Enhancing parallelism: compiler directives, threads, and message passing Mathematical libraries and algorithms Whether you're a developer, ISV, or technical researcher, if you need to optimize high-performance software on today's leading

processors, one book delivers the advanced techniques and code examples you need: Software Optimization for High Performance Computing. Hadoop MapReduce v2 Cookbook - Second Edition Prentice Hall Professional The field of Chemical Engineering and its link to computer science is in constant evolution and new engineers have a variety of tools at their disposal to tackle their everyday problems. Introduction to Software for Chemical Engineers, Second Edition provides a quick guide to the use of various computer packages

for chemical engineering applications. It covers a range of software applications from Excel and general mathematical packages such as MATLAB and MathCAD to process simulators, CHEMCAD and ASPEN, equation-based modeling languages, gProms, optimization software such as GAMS and AIMS, and specialized software like CFD or DEM codes. The different packages are introduced and applied to solve typical problems in fluid mechanics, heat and mass transfer, mass and energy balances, unit operations, reactor engineering, process and

equipment design and control. This new edition offers a wider view of packages including open source software such as R, Python and Julia. It also includes complete examples in ASPEN Plus, adds ANSYS Fluent to CFD codes, Lingo to the optimization packages, and discusses Engineering Equation Solver. It offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real-world problems. Written by leading experts, this book is a must-have reference for chemical engineers looking to grow in

their careers through the use of new and improving computer software. Its user-friendly approach to simulation and optimization as well as its example-based presentation of the software, makes it a perfect teaching tool for both undergraduate and master levels. scikit-learn Cookbook World Scientific Use Qt 5 to design and build functional, appealing, and user-friendly graphical user interfaces (GUIs) for your applications. Key Features Learn to use Qt 5 to design and customize the look and feel of your application Improve the visual quality of an application by using graphics rendering and animation Understand the balance of

presentation and web content that will make an application appealing yet functional Book Description With the growing need to develop GUIs for multiple targets and multiple screens, improving the visual quality of your application becomes important so that it stands out from your competitors. With its cross-platform ability and the latest UI paradigms, Qt makes it possible to build intuitive, interactive, and user-friendly user interfaces for your applications. Qt5 C++ GUI Programming Cookbook, Second Edition teaches you how to develop functional and appealing user interfaces using the latest version of QT5

and C++. This book will help you learn a variety of topics such as GUI customization and animation, graphics rendering, implementing Google Maps, and more. You will also be taken through advanced concepts like asynchronous programming, event handling using signals and slots, network programming, various aspects of optimizing your application. By the end of the book, you will be confident to design and customize GUI applications that meet your clients' expectations and have an understanding of best practice solutions for common problems. What you will learn Animate GUI elements using Qt5's built-in animation

systemDraw shapes and 2D images using Qt5's powerful rendering systemImplement an industry-standard OpenGL library in your projectBuild a mobile app that supports touch events and exports it onto devicesParse and extract data from an XML file and present it on your GUIInteract with web content by calling JavaScript functions from C++Access MySQL and SQLite databases to retrieve data and display it on your GUIWho this book is for This intermediate-level book is designed for those who want to develop software using Qt 5. If you want to improve the visual quality and content presentation of your software

application, this book is for you. Prior experience of C++ programming is required.
C++ HIGH PERFORMANCE
_ Packt Publishing Ltd
Software systems now invade every area of daily living. Yet, we still struggle to build systems we can really rely on. If we want to work with software systems at any level, we need to get to grips with the way software evolves. This book will equip the reader with a sound understanding of maintenance and how it affects all levels of the software evolution process.

Jenkins Continuous
Integration
Cookbook -
Second Edition

Packt Publishing
Ltd

If you want to learn how to program in Rust and create strong, reliable apps with the most recent version Rust 1.68, then you need the "Practical Rust 1.x Cookbook (Second Edition)"—a book full of real-world solutions. An extensive collection of practical recipes covering a wide range of topics, this edition expands upon the first and

guarantees that you will be well-versed in the complexities of Rust. You will learn the fundamentals of programming, how to set up a development environment, and the syntax of Rust in the first few chapters. Data structures, pattern matching, error handling, and concurrency are all covered in the recipes, which will set you up for success with more complex topics. As you go through the book, you'll learn how to write efficient and secure code by managing memory, using

Rust's ownership model, and borrowing rules. You will gain an understanding of how to make use of robust Rust features such as traits, generics, and lifetimes to build code that is both flexible and reusable. The testing and debugging chapters provide the necessary tools and techniques to guarantee that your applications are dependable and free of bugs. Using profiling tools like valgrind and perf, the cookbook teaches you how to find and fix

performance bottlenecks, which is a major focus of performance optimization. By learning about SIMD instructions, compiler optimization flags, and parallel processing with libraries like rayon, you can greatly improve the efficiency of your code. In the more advanced chapters, you will learn how to use static and dynamic analysis, fuzz testing, and external high-performance libraries to make your applications even better. In no time at all, you will be able to build

robust, high-performance Rust applications by following these potent recipes and becoming an expert Rust programmer. Key Learnings Learn the ins and outs of Rust's ownership model to avoid data races and make sure memory is safe. Develop your skills in pattern matching and advanced error handling to create code that is both strong and easy to maintain. Use the robust primitives and rayon library in Rust to implement parallelism and concurrency. Use

the perf, valgrind, and SIMD instructions to optimize performance for efficient execution. Carry out thorough fuzz testing and static analysis with clippy and cargo-fuzz. Enable efficient memory management by studying high-performance libraries such as hashbrown and jemalloc. With diesel and sqlx, you can manage databases and make queries and integrations a breeze. Optimize the deployment of Rust applications and establish

CI/CD pipelines.
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Setting up and
Configuring Rust
Environment
Hands-on Traits,
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Concurrency and
Multithreading
Asynchronous
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and SOAP APIs
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Working around
CI/CD Working
around
Kubernetes Fuzz
Testing and Static

Analysis Code
Performance
Optimization
Programming
Multicore and
Many-core
Computing
Systems Coriolis
Group Books
OpenCV 3
Computer Vision
Application
Programming
Cookbook is
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want to learn how
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OpenCV library
to build computer
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a companion book
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constitutes an
excellent reference
for graduate
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image processing
and computer
vision.
Python GUI
Programming
Cookbook Packt
Publishing Ltd
Written by high
performance
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experts,
Introduction to
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a solid introduction to current mainstream computer architecture, dominant parallel programming models, and useful optimization strategies for scientific HPC. From working in a scientific computing center, the author Embedded Computing for High Performance Packt Publishing Ltd Through example-driven recipes, with plenty of code, focused on the most vital features of the latest PostgreSQL version (9.4), both administrators and developers will

follow short, specific guides to understand and leverage useful PostgreSQL functionalities to create better and more efficient databases. [PostgreSQL 9 Administration Cookbook - Second Edition](#) Packt Publishing Ltd Over 79 hands-on recipes for professional embedded Linux developers to optimize and boost their Yocto Project know-how Key Features Optimize your Yocto setup to speed up development and debug build issues Use what is quickly becoming the

standard embedded Linux product builder framework—the Yocto Project Recipe-based implementation of best practices to optimize your Linux system Book Description The Yocto Project has become the de facto distribution build framework for reliable and robust embedded systems with a reduced time to market. You'll get started by working on a build system where you set up Yocto, create a build directory, and learn how to debug it. Then, you'll explore everything about the BSP layer, from creating a custom layer to debugging

device tree issues. In addition to this, you'll learn how to add a new software layer, packages, data, scripts, and configuration files to your system. You will then cover topics based on application development, such as using the Software Development Kit and how to use the Yocto project in various development environments. Toward the end, you will learn how to debug, trace, and profile a running system. This second edition has been updated to include new content based on the latest Yocto release. What you will learn

Optimize your Yocto Project setup to speed up development and debug build issues
Use Docker containers to build Yocto Project-based systems
Take advantage of the user-friendly Toaster web interface to the Yocto Project build system
Build and debug the Linux kernel and its device trees
Customize your root filesystem with already-supported and new Yocto packages
Optimize your production systems by reducing the size of both the Linux kernel and root filesystems
Explore the mechanisms to increase the root filesystem security

Understand the open source licensing requirements and how to comply with them when cohabiting with proprietary programs
Create recipes, and build and run applications in C, C++, Python, Node.js, and Java
Who this book is for
If you are an embedded Linux developer with the basic knowledge of Yocto Project, this book is an ideal way to broaden your knowledge with recipes for embedded development.
Software Maintenance: Concepts And Practice (Second Edition)
Packt Publishing Ltd

A complete guide to dominating search engines with your WordPress site

About This Book

Everything you need to get your WordPress site to the top of search engines and bring thousands of new customers to your blog or business

Learn everything from keyword research and link building to customer conversions, in this complete guide

Packed with real-world examples to help get your site noticed on Google, Yahoo, and Bing

Who This Book Is For

This book is for anyone who runs any of the over 90,000,000 WordPress

installations throughout the world. If you can login to your WordPress website, you can implement most of the tips in this book without any coding experience. What You Will Learn

The elements that search engines use to rank websites—and how to optimize your site for premium placement

Harness social media sites to extend the reach of your site and gain more visitors

Discover the high-volume, high-value search phrases that customers use when searching for your products or services

Avoid dangerous black-hat optimization

techniques and the people who advocate and purvey them

Build high-quality, high-value links from other websites to raise your rankings in search engines

Create optimized and engaging content that both search engines and readers will love

Avoid common SEO mistakes that can get your site penalized by search engines

In Detail

WordPress is a powerful platform for creating feature-rich and attractive websites but, with a little extra tweaking and effort, your WordPress site can dominate search engines and bring thousands of new

customers to your business. WordPress Search Engine Optimization will show you the secrets that professional SEO companies use to take websites to the top of search results. You'll take your WordPress site to the next level; you'll brush aside even the stiffest competition with the advanced tutorials in this book. Style and approach This is a practical, hands-on book based around sound SEO techniques specifically applied to WordPress. Each chapter starts with a brief overview of the important concepts then quickly moves into practical step-by-step actions you

can take immediately. Throughout the book, you'll get clear instructions and detailed screenshots, so you can see exactly what to do each step of the way. The Software Optimization Cookbook IGI Global
If you are a geospatial analyst who wants to learn more about automating everyday GIS tasks or a programmer who is responsible for building GIS applications, this book is for you. The short, reusable recipes make concepts

easy to understand. You can build larger applications that are easy to maintain when they are put together. The Software Optimization Cookbook Prentice Hall Professional
Revealing the secrets of the software tuning process, The Software Optimization Cookbook provides recipes for high-performance applications on the Intel? Pentium? III and Pentium? 4 processors. Simple explanations and C language examples show you how to address performance issues

with algorithms, memory access, branching, SIMD instructions, multiple threads, and floating-point calculations. With this book, you need not be a processor architect or assembly language expert to get the full power out of your software on the 32-bit Intel Architecture. Learn how to: Use performance tools and tested concepts to analyze and improve applications. Determine which portions of an application should be given highest priority for optimizations. Identify the reasons that certain portions

of your application are slower than they should be. Improve an application by working directly on the root cause of a software bottleneck. Design an application from the ground up for maximum performance. [Software Optimization for High-performance Computing](#) [GitforGits](#) If you are an architect, this book will help you make the correct decisions about which Azure building blocks to use. If you are a developer, this book will help you understand how to use them appropriately, and if you are a .NET developer, this book is a pure delight.

WordPress Search Engine Optimization Packt Publishing Ltd Refactoring is gaining momentum amongst the object oriented programming community. It can transform the internal dynamics of applications and has the capacity to transform bad code into good code. This book offers an introduction to refactoring. Docker Cookbook Packt Publishing Ltd Tackle the trickiest of problems in Go programming with this practical guide [Key Features](#) Develop applications for different domains

using modern programming techniques Tackle common problems when it comes to parallelism, concurrency, and reactive programming in Go with ready-to-execute code based on the latest version of Go. Book Description Go (or Golang) is a statically typed programming language developed at Google. Known for its vast standard library, it also provides features such as garbage collection, type safety, dynamic-typing capabilities, and additional built-in types. This book will serve as a reference while

implementing Go features to build your own applications. This Go cookbook helps you put into practice the advanced concepts and libraries that Golang offers. The recipes in the book follow best practices such as documentation, testing, and vendoring with Go modules, as well as performing clean abstractions using interfaces. You'll learn how code works and the common pitfalls to watch out for. The book covers basic type and error handling, and then moves on to explore applications, such as websites, command-line tools, and

filesystems, that interact with users. You'll even get to grips with parallelism, distributed systems, and performance tuning. By the end of the book, you'll be able to use open source code and concepts in Go programming to build enterprise-class applications without any hassle. What you will learn with third-party Go projects and modify them for your use. Write Go code using modern best practices. Manage your dependencies with the new Go module system. Solve common problems encountered when dealing with

backend systems or
DevOpsExplore the
Go standard library
and its usesTest,
profile, and fine-
tune Go
applicationsWho
this book is for If
you're a web
developer,
programmer, or
enterprise developer
looking for quick
solutions to common
and not-so-common
problems in Go
programming, this
book is for you.
Basic knowledge of
the Go language is
assumed.
Embedded Linux
Development Using
Yocto Project
Cookbook Packt
Publishing Ltd
If you are a Big
Data enthusiast and
wish to use Hadoop
v2 to solve your

problems, then this
book is for you. This
book is for Java
programmers with
little to moderate
knowledge of
Hadoop
MapReduce. This is
also a one-stop
reference for
developers and
system admins who
want to quickly get
up to speed with
using Hadoop v2. It
would be helpful to
have a basic
knowledge of
software
development using
Java and a basic
working knowledge
of Linux.
Proceedings of the ...
ACM SIGPLAN
Symposium on
Principles & Practice
of Parallel
Programming John
Wiley & Sons
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techniques, and end-
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new recipes to fill gaps
in your knowledge
while using Angular in
production Discover
industry best practices
and tooling to
enhance your
development
experience with
Angular 's
renaissance Gain an
understanding of
advanced Angular
topics to become a
proficient enterprise
web developer Book
DescriptionAngular
has long been the
framework of choice
for web development
projects of various
scales, offering much-
needed stability and a

rich tooling ecosystem for building production-ready web and mobile apps. This recipe-based guide to Angular will help you build up your Angular expertise with a wide range of recipes across key tasks in web development and show you how to build high-performance apps. In this second edition, the recipes have been updated, added, and improved based on developer feedback and new challenges. The first few chapters will show you how to utilize core Angular concepts such as components, directives, and services to get you ready for building frontend web apps. You'll then develop web components with Angular and go on to learn about advanced

concepts such as dynamic components loading and state management with NgRx for achieving real-time performance. Later chapters will focus on recipes for effectively testing your Angular apps to make them fail-safe, before progressing to techniques for optimizing your app's performance. Finally, you'll create Progressive Web Apps (PWA) with Angular to provide an intuitive experience for users. By the end of this book, you'll be able to create full-fledged, professional-looking Angular apps and have the skills you need for frontend development. What you will learn Gain a better understanding of how components, services, and

directives work in Angular Get to grips with creating Progressive Web Apps using Angular from scratch Build rich animations and add them to your Angular apps Manage your app's data reactivity using RxJS Implement state management for your Angular apps with NgRx Optimize the performance of your new and existing web apps Write fail-safe unit tests and end-to-end tests for your web apps using Jest and Cypress Get familiar with Angular CDK components for designing effective Angular components Who this book is for This book is for intermediate-level Angular developers looking for actionable solutions to common problems in Angular

enterprise development. Mobile developers using Angular will also find the recipes in this book useful. Working experience with JavaScript and TypeScript is necessary to understand the topics covered in this book more effectively. Practical Rust 1.x Cookbook, Second Edition John Wiley & Sons By using computer simulations in research and development, computational science and engineering (CSE) allows empirical inquiry where traditional experimentation and methods of inquiry are difficult, inefficient, or

prohibitively expensive. The Handbook of Research on Computational Science and Engineering: Theory and Practice is a reference for interested researchers and decision-makers who want a timely introduction to the possibilities in CSE to advance their ongoing research and applications or to discover new resources and cutting edge developments. Rather than reporting results obtained using CSE models, this comprehensive survey captures the architecture of the cross-disciplinary

field, explores the long term implications of technology choices, alerts readers to the hurdles facing CSE, and identifies trends in future development.