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Randolph West, Melody Zacharias, William Assaf, Sven Aelterman, Louis Davidson, Joseph D'Antoni

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An Introduction To High Content Screening Steven A. Haney, Douglas Bowman, Arijit Chakravarty, Anthony Davies, Caroline Shamu, 2015-01-07 Using a collaborative and interdisciplinary author base with experience in the pharmaceutical industry and academia this book is a practical resource for high content HC techniques Instructs readers on the fundamentals of high content screening HCS techniques Focuses on practical and widely used techniques like image processing and multiparametric assays Breaks down HCS into individual modules for training and connects them at the end Includes a tutorial chapter that works through sample HCS assays glossary and detailed appendices **Real World** Instrumentation with Python John M. Hughes, 2010-11-15 Learn how to develop your own applications to monitor or control instrumentation hardware Whether you need to acquire data from a device or automate its functions this practical book shows you how to use Python's rapid development capabilities to build interfaces that include everything from software to wiring You get step by step instructions clear examples and hands on tips for interfacing a PC to a variety of devices Use the

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sampling 4 Diversity sampling 5 Advanced active learning 6 Applying active learning to different machine learning tasks PART 3 ANNOTATION 7 Working with the people annotating your data 8 Quality control for data annotation 9 Advanced data annotation and augmentation 10 Annotation quality for different machine learning tasks PART 4 HUMAN COMPUTER INTERACTION FOR MACHINE LEARNING 11 Interfaces for data annotation 12 Human in the loop machine learning Learn Generative AI with PyTorch Mark Liu, 2025-01-28 Learn how generative AI works by building your very own models that can write coherent text create realistic images and even make lifelike music Learn Generative AI with PyTorch teaches the underlying mechanics of generative AI by building working AI models from scratch Throughout you ll use the intuitive PyTorch framework that s instantly familiar to anyone who s worked with Python data tools Along the way you ll master the fundamentals of General Adversarial Networks GANs Transformers Large Language Models LLMs variational autoencoders diffusion models LangChain and more In Learn Generative AI with PyTorch you ll build these amazing models A simple English to French translator A text generating model as powerful as GPT 2 A diffusion model that produces realistic flower images Music generators using GANs and Transformers An image style transfer model A zero shot know it all agent The generative AI projects you create use the same underlying techniques and technologies as full scale models like GPT 4 and Stable Diffusion You don t need to be a machine learning expert you can get started with just some basic Python programming skills About the technology Transformers Generative Adversarial Networks GANs diffusion models LLMs and other powerful deep learning patterns have radically changed the way we manipulate text images and sound Generative AI may seem like magic at first but with a little Python the PyTorch framework and some practice you can build interesting and useful models that will train and run on your laptop This book shows you how About the book Learn Generative AI with PyTorch introduces the underlying mechanics of generative AI by helping you build your own working AI models You ll begin by creating simple images using a GAN and then progress to writing a language translation transformer line by line As you work through the fun and fascinating projects you ll train models to create anime images write like Hemingway make music like Mozart and more You just need Python and a few machine learning basics to get started You ll learn the rest as you go What's inside Build an English to French translator Create a text generation LLM Train a diffusion model to produce high resolution images Music generators using GANs and Transformers About the reader Examples use simple Python No deep learning experience required About the author Mark Liu is the founding director of the Master of Science in Finance program at the University of Kentucky The technical editor on this book was Emmanuel Maggiori

NHibernate in Action Pierre Henri Kuate, Christian Bauer, Gavin King, 2009-03-10 This book is a translation from Java to Net as well as an expansion of the bestselling Hibernate in Action All traces of Java have been carefully replaced by their Net equivalents in order to guide readers through complex business operations

SQL Server 2019 Administration Inside

Out Randolph West, Melody Zacharias, William Assaf, Sven Aelterman, Louis Davidson, Joseph D'Antoni, 2020-03-11 Conquer

SOL Server 2019 administration from the inside out Dive into SOL Server 2019 administration and really put your SOL Server DBA expertise to work This supremely organized reference packs hundreds of timesaving solutions tips and workarounds all you need to plan implement manage and secure SQL Server 2019 in any production environment on premises cloud or hybrid Six experts thoroughly tour DBA capabilities available in SQL Server 2019 Database Engine SQL Server Data Tools SQL Server Management Studio PowerShell and Azure Portal You ll find extensive new coverage of Azure SQL big data clusters PolyBase data protection automation and more Discover how experts tackle today s essential tasks and challenge yourself to new levels of mastery Explore SQL Server 2019 s toolset including the improved SQL Server Management Studio Azure Data Studio and Configuration Manager Design implement manage and govern on premises hybrid or Azure database infrastructures Install and configure SQL Server on Windows and Linux Master modern maintenance and monitoring with extended events Resource Governor and the SQL Assessment API Automate tasks with maintenance plans PowerShell Policy Based Management and more Plan and manage data recovery including hybrid backup restore Azure SQL Database recovery and geo replication Use availability groups for high availability and disaster recovery Protect data with Transparent Data Encryption Always Encrypted new Certificate Management capabilities and other advances Optimize databases with SQL Server 2019 s advanced performance and indexing features Provision and operate Azure SQL Database and its managed instances Move SQL Server workloads to Azure planning testing migration and post migration Entity Framework Core in Action, Second Edition Jon P Smith, 2021-07-13 The most comprehensive reference for EF Core that does or ever will exist Stephen Byrne Intel Corporation Entity Framework Core in Action Second Edition teaches you to write flawless database interactions for NET applications Summary Entity Framework Core in Action Second Edition is an in depth guide to reading and writing databases with EF Core Revised from the bestselling original edition it s filled with over 100 diagrams code snippets and examples including building and scaling your own bookselling web application Learn from author Jon Smith's extensive experience working with EF Core in production as you discover time saving patterns and best practices for security performance tuning and unit testing All of the book s code is available on GitHub Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Entity Framework radically simplifies data access in NET applications This easy to use object relational mapper ORM lets you write database code in pure C It automatically maps classes to database tables and enables queries with standard LINQ commands It even generates SQL so you don't have to About the book Entity Framework Core in Action Second Edition teaches you to write flawless database interactions for NET applications Following relevant examples from author Jon Smith s extensive experience you ll progress quickly from EF basics to advanced techniques In addition to the latest EF features this book addresses performance security refactoring and unit testing This updated edition also contains new material on NoSQL databases What's inside Configure EF to define every table and column Update your schema as your

app grows Integrating EF with existing C application Write and test business logic for database access Applying a Domain Driven Design to EF Core Getting the best performance out of EF Core About the reader For NET developers familiar with relational databases About the author Jon P Smith is a freelance software developer and architect with a special focus on NET and Azure Table of Contents PART 1 1 Introduction to Entity Framework Core 2 Querying the database 3 Changing the database content 4 Using EF Core in business logic 5 Using EF Core in ASP NET Core web applications 6 Tips and techniques for reading and writing with EF Core PART 2 7 Configuring nonrelational properties 8 Configuring relationships 9 Handling database migrations 10 Configuring advanced features and handling concurrency conflicts 11 Going deeper into the DbContext PART 3 12 Using entity events to solve business problems 13 Domain Driven Design and other architectural approaches 14 EF Core performance tuning 15 Master class on performance tuning database gueries 16 Cosmos DB CQRS and other database types 17 Unit testing EF Core applications Data Algorithms Mahmoud Parsian, 2015-07-13 If you are ready to dive into the MapReduce framework for processing large datasets this practical book takes you step by step through the algorithms and tools you need to build distributed MapReduce applications with Apache Hadoop or Apache Spark Each chapter provides a recipe for solving a massive computational problem such as building a recommendation system You ll learn how to implement the appropriate MapReduce solution with code that you can use in your projects Dr Mahmoud Parsian covers basic design patterns optimization techniques and data mining and machine learning solutions for problems in bioinformatics genomics statistics and social network analysis This book also includes an overview of MapReduce Hadoop and Spark Topics include Market basket analysis for a large set of transactions Data mining algorithms K means KNN and Naive Bayes Using huge genomic data to sequence DNA and RNA Naive Bayes theorem and Markov chains for data and market prediction Recommendation algorithms and pairwise document similarity Linear regression Cox regression and Pearson correlation Allelic frequency and mining DNA Social network analysis recommendation systems counting triangles An R Companion to Political Analysis Philip H. Pollock III, Philip H. Pollock (III.), Barry C. sentiment analysis Edwards, 2022-07-18 The Third Edition of An R Companion to Political Analysis by Philip H Pollock III and Barry C Edwards teaches your students to conduct research with R the open source programming language for statistical computing and graphics This workbook offers the same easy to use style as other Companions tailored for R Spring Batch in Action Arnaud Cogoluegnes, Thierry Templier, Olivier Bazoud, 2011-09-30 Summary Spring Batch in Action is an in depth guide to writing batch applications using Spring Batch Written for developers who have basic knowledge of Java and the Spring lightweight container the book provides both a best practices approach to writing batch jobs and comprehensive coverage of the Spring Batch framework About the Technology Even though running batch jobs is a common task there s no standard way to write them Spring Batch is a framework for writing batch applications in Java It includes reusable components and a solid runtime environment so you don't have to start a new project from scratch And it uses Spring's familiar programming

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Test-Driven Development Thomas Hammell, David Gold, Tom Snyder, 2007-03-01 This will be the first book to show how to implement a test driven development process in detail as it applies to real world J2EE applications Combines the tools and methodologies of test driven development with real world use cases unlikely most titles which cover one or the other Looks at the complete process including test coverage strategies test organization incorporating TDD into new and existing projects as well as how to automate it all This book is not version specific

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