

livelessons™ 

Working with Big Data

Infrastructure, Algorithms,
and Visualizations

Paul Dix

video

Livelessons Working With Big Data

Paul Dix



Livelessons Working With Big Data:

Data Just Right Michael Manooch, 2014 Making Big Data Work Real World Use Cases and Examples Practical Code Detailed Solutions Large scale data analysis is now vitally important to virtually every business Mobile and social technologies are generating massive datasets distributed cloud computing offers the resources to store and analyze them and professionals have radically new technologies at their command including NoSQL databases Until now however most books on Big Data have been little more than business polemics or product catalogs Data Just Right is different It s a completely practical and indispensable guide for every Big Data decision maker implementer and strategist Michael Manooch a former Google engineer and data hacker writes for professionals who need practical solutions that can be implemented with limited resources and time Drawing on his extensive experience he helps you focus on building applications rather than infrastructure because that s where you can derive the most value Manooch shows how to address each of today s key Big Data use cases in a cost effective way by combining technologies in hybrid solutions You ll find expert approaches to managing massive datasets visualizing data building data pipelines and dashboards choosing tools for statistical analysis and more Throughout the author demonstrates techniques using many of today s leading data analysis tools including Hadoop Hive Shark R Apache Pig Mahout and Google BigQuery Coverage includes Mastering the four guiding principles of Big Data success and avoiding common pitfalls Emphasizing collaboration and avoiding problems with siloed data Hosting and sharing multi terabyte datasets efficiently and economically Building for infinity to support rapid growth Developing a NoSQL Web app with Redis to collect crowd sourced data Running distributed queries over massive datasets with Hadoop Hive and Shark Building a data dashboard with Google BigQuery Exploring large datasets with advanced visualization Implementing efficient pipelines for transforming immense amounts of data Automating complex processing with Apache Pig and the Cascading Java library Applying machine learning to classify recommend and predict incoming information Using R to perform statistical analysis on massive datasets Building highly efficient analytics workflows with Python and Pandas Establishing sensible purchasing strategies when to build buy or outsource Previewing emerging trends and convergences in scalable data technologies and the evolving role of the Data Scientist

Practical Cassandra Russell Bradberry, Eric Lubow, 2014 Eric and Russell were early adopters of Cassandra at SimpleReach In Practical Cassandra you benefit from their experience in the trenches administering Cassandra developing against it and building one of the first CQL drivers If you are deploying Cassandra soon or you inherited a Cassandra cluster to tend spend some time with the deployment performance tuning and maintenance chapters If you are new to Cassandra I highly recommend the chapters on data modeling and CQL From the Foreword by Jonathon Ellis Apache Cassandra Chair Build and Deploy Massively Scalable Super fast Data Management Applications with Apache Cassandra Practical Cassandra is the first hands on developer s guide to building Cassandra systems and applications that deliver breakthrough speed scalability reliability and performance Fully up to date it reflects

the latest versions of Cassandra including Cassandra Query Language CQL which dramatically lowers the learning curve for Cassandra developers Pioneering Cassandra developers and Datastax MVPs Russell Bradberry and Eric Lubow walk you through every step of building a real production application that can store enormous amounts of structured semi structured and unstructured data Drawing on their exceptional expertise Bradberry and Lubow share practical insights into issues ranging from querying to deployment management maintenance monitoring and troubleshooting The authors cover key issues from architecture to migration and guide you through crucial decisions about configuration and data modeling They provide tested sample code detailed explanations of how Cassandra works under the covers and new case studies from three cutting edge users Ooyala Hailo and eBay Coverage includes Understanding Cassandra s approach architecture key concepts and primary use cases and why it s so blazingly fast Getting Cassandra up and running on single nodes and large clusters Applying the new design patterns philosophies and features that make Cassandra such a powerful data store Leveraging CQL to simplify your transition from SQL based RDBMSes Deploying and provisioning through the cloud or on bare metal hardware Choosing the right configuration options for each type of workload Tweaking Cassandra to get maximum performance from your hardware OS and JVM Mastering Cassandra s essential tools for maintenance and monitoring Efficiently solving the most common problems with Cassandra deployment operation and application development

Bayesian Methods for Hackers Cameron Davidson-Pilon, 2015-09-30 Master Bayesian Inference through Practical Examples and Computation Without Advanced Mathematical Analysis Bayesian methods of inference are deeply natural and extremely powerful However most discussions of Bayesian inference rely on intensely complex mathematical analyses and artificial examples making it inaccessible to anyone without a strong mathematical background Now though Cameron Davidson Pilon introduces Bayesian inference from a computational perspective bridging theory to practice freeing you to get results using computing power Bayesian Methods for Hackers illuminates Bayesian inference through probabilistic programming with the powerful PyMC language and the closely related Python tools NumPy SciPy and Matplotlib Using this approach you can reach effective solutions in small increments without extensive mathematical intervention Davidson Pilon begins by introducing the concepts underlying Bayesian inference comparing it with other techniques and guiding you through building and training your first Bayesian model Next he introduces PyMC through a series of detailed examples and intuitive explanations that have been refined after extensive user feedback You ll learn how to use the Markov Chain Monte Carlo algorithm choose appropriate sample sizes and priors work with loss functions and apply Bayesian inference in domains ranging from finance to marketing Once you ve mastered these techniques you ll constantly turn to this guide for the working PyMC code you need to jumpstart future projects Coverage includes Learning the Bayesian state of mind and its practical implications Understanding how computers perform Bayesian inference Using the PyMC Python library to program Bayesian analyses Building and debugging models with PyMC Testing your model s goodness of fit Opening the black box of

the Markov Chain Monte Carlo algorithm to see how and why it works Leveraging the power of the Law of Large Numbers Mastering key concepts such as clustering convergence autocorrelation and thinning Using loss functions to measure an estimate s weaknesses based on your goals and desired outcomes Selecting appropriate priors and understanding how their influence changes with dataset size Overcoming the exploration versus exploitation dilemma deciding when pretty good is good enough Using Bayesian inference to improve A B testing Solving data science problems when only small amounts of data are available Cameron Davidson Pilon has worked in many areas of applied mathematics from the evolutionary dynamics of genes and diseases to stochastic modeling of financial prices His contributions to the open source community include lifelines an implementation of survival analysis in Python Educated at the University of Waterloo and at the Independent University of Moscow he currently works with the online commerce leader Shopify *R for Everyone* Jared P.

Lander,2013-12-20 Statistical Computation for Programmers Scientists Quants Excel Users and Other Professionals Using the open source R language you can build powerful statistical models to answer many of your most challenging questions R has traditionally been difficult for non statisticians to learn and most R books assume far too much knowledge to be of help R for Everyone is the solution Drawing on his unsurpassed experience teaching new users professional data scientist Jared P Lander has written the perfect tutorial for anyone new to statistical programming and modeling Organized to make learning easy and intuitive this guide focuses on the 20 percent of R functionality you ll need to accomplish 80 percent of modern data tasks Lander s self contained chapters start with the absolute basics offering extensive hands on practice and sample code You ll download and install R navigate and use the R environment master basic program control data import and manipulation and walk through several essential tests Then building on this foundation you ll construct several complete models both linear and nonlinear and use some data mining techniques By the time you re done you won t just know how to write R programs you ll be ready to tackle the statistical problems you care about most **COVERAGE INCLUDES** Exploring R RStudio and R packages Using R for math variable types vectors calling functions and more Exploiting data structures including data frames matrices and lists Creating attractive intuitive statistical graphics Writing user defined functions Controlling program flow with if ifelse and complex checks Improving program efficiency with group manipulations Combining and reshaping multiple datasets Manipulating strings using R s facilities and regular expressions Creating normal binomial and Poisson probability distributions Programming basic statistics mean standard deviation and t tests Building linear generalized linear and nonlinear models Assessing the quality of models and variable selection Preventing overfitting using the Elastic Net and Bayesian methods Analyzing univariate and multivariate time series data Grouping data via K means and hierarchical clustering Preparing reports slideshows and web pages with knitr Building reusable R packages with devtools and Rcpp Getting involved with the R global community **Working with Big Data LiveLessons (Video Training)** Paul Dix,2012 Working with Big Data Infrastructure Algorithms and Visualizations LiveLessons presents a high

level overview of big data and how to use key tools to solve your data challenges This introduction to the three areas of big data includes Infrastructure how to store and process big data Algorithms how to integrate algorithms into your big data stack and an introduction to classification Visualizations an introduction to creating visualizations in JavaScript using D3.js The goal was not to be exhaustive but rather to provide a higher level view of how all the pieces of a big data architecture work together About the Author Paul Dix is the author of Service Oriented Design with Ruby and Rails He is a frequent speaker at conferences and user groups including Web 2.0 RubyConf RailsConf The Gotham Ruby Conference and Scotland on Rails Paul is the founder and organizer of the NYC Machine Learning Meetup which has over 2,900 members In the past he has worked at startups and larger companies like Google Microsoft and McAfee Currently Paul is a co-founder at Errplane a cloud based service for monitoring and alerting on application performance and metrics He lives in New York City

Working with Big Data Paul Dix, 2013 Working with Big Data Infrastructure Algorithms and Visualizations LiveLessons presents a high level overview of big data and how to use key tools to solve your data challenges This introduction to the three areas of big data includes Infrastructure how to store and process big data Algorithms how to integrate algorithms into your big data stack and an introduction to classification Visualizations an introduction to creating visualizations in JavaScript using D3.js Resource description page

Python for Programmers Paul Deitel, Harvey Deitel, 2019-03-15 The professional programmer's Deitel guide to Python with introductory artificial intelligence case studies Written for programmers with a background in another high level language Python for Programmers uses hands on instruction to teach today's most compelling leading edge computing technologies and programming in Python one of the world's most popular and fastest growing languages Please read the Table of Contents diagram inside the front cover and the Preface for more details In the context of 500 real world examples ranging from individual snippets to 40 large scripts and full implementation case studies you'll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms After covering Python Chapters 1-5 and a few key parts of Chapters 6-7 you'll be able to handle significant portions of the hands on introductory AI case studies in Chapters 11-16 which are loaded with cool powerful contemporary examples These include natural language processing data mining Twitter for sentiment analysis cognitive computing with IBM Watson™ supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and convolutional neural networks deep learning with recurrent neural networks big data with Hadoop Spark™ and NoSQL databases the Internet of Things and more You'll also work directly or indirectly with cloud based services including Twitter Google Translate™ IBM Watson Microsoft Azure OpenMapQuest PubNub and more Features 500 hands on real world live code examples from snippets to case studies IPython code in Jupyter Notebooks Library focused Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage Control statements functions strings files JSON serialization CSV exceptions Procedural functional

style and object oriented programming Collections Lists tuples dictionaries sets NumPy arrays pandas Series DataFrames Static dynamic and interactive visualizations Data experiences with real world datasets and data sources Intro to Data Science sections AI basic stats simulation animation random variables data wrangling regression AI big data and cloud data science case studies NLP data mining Twitter IBM Watson™ machine learning deep learning computer vision Hadoop Spark™ NoSQL IoT Open source libraries NumPy pandas Matplotlib Seaborn Folium SciPy NLTK TextBlob spaCy Textatistic Tweepy scikit learn Keras and more Accompanying code examples are available here http://ptgmedia.pearsoncmg.com/imprint_downloads/informit/bookreg/9780135224335/9780135224335_examples.zip Register your product for convenient access to downloads updates and or corrections as they become available See inside book for more information

Data Analytics and Machine Learning Fundamentals LiveLessons Video Training Jerome Henry, 2019 More than 7 5 Hours of Video Instruction Overview Nearly every company in the world is evaluating its digital strategy and looking for ways to capitalize on the promise of digitization Big data analytics and machine learning are central to this strategy Understanding the fundamentals of data processing and artificial intelligence is becoming required knowledge for executives digital architects IT administrators and operational telecom OT professionals in nearly every industry In Data Analytics and Machine Learning Fundamentals LiveLessons experienced CCIEs Robert Barton and Jerome Henry provide more than 7 1 2 hours of personal instruction exploring the principles of big data analytics supervised learning unsupervised learning and neural networks In addition to delving into the fundamental concepts Barton and Henry address sample big data and machine learning use cases in different industries and present demos featuring the most common tools such as Hadoop TensorFlow Matlab Octave R and Python in various fields used by data scientists and researchers At the conclusion of this video course you will be armed with knowledge and application skills required to become proficient in articulating big data analytics and machine learning principles and possibilities Skill Level Beginner to intermediate data analytics machine learning knowledge Learn How To Understand how static and real time streaming data is collected analyzed and used Understand the key tools and methods that enable machines to learn and mimic human thinking Bring together unstructured data in preparation for analysis and visualization Compare and contrast the various big data architectures Apply supervised learning linear regression data fitting and reinforcement learning to machines to yield the information results you re looking for Apply classification techniques to machine learning to better analyze your data Exploit the benefits of unsupervised learning to glean data you didn t even know you were looking for Understand how artificial neural networks ANNs perform deep learning with surprising and useful results Apply principal components analysis PCA to improve the management of data analysis Understand the key approaches to implementing machine learning on real systems and the considerations you must make when undertaking a machine learning project Who Should Take This Course Anyone who wants to learn about machine learni *Professionals Learning in Community to Improve the Intellectual Quality of Students' Thinking* Jennifer Ellen

Kunze,2006 **Popular Educator** ,1923 *Northian* ,1968 **A Qualitative Study of Faculty's Perceptions of Computer Use for Teaching and the Impact on Teaching and Learning** Bosede Oluremi Aworuwa,1994 *Data Just Right LiveLessons* Michael Manoochehri,2014 Data Just Right LiveLessons provides a practical introduction to solving common data challenges such as managing massive datasets visualizing data building data pipelines and dashboards and choosing tools for statistical analysis You will learn how to use many of today s leading data analysis tools including Hadoop Hive Shark R Apache Pig Mahout and Google BigQuery Data Just Right LiveLessons shows how to address each of today s key Big Data use cases in a cost effective way by combining technologies in hybrid solutions You ll find expert approaches to managing massive datasets visualizing data building data pipelines and dashboards choosing tools for statistical analysis and more These videos demonstrate techniques using many of today s leading data analysis tools including Hadoop Hive Shark R Apache Pig Mahout and Google BigQuery Resource description page [Hadoop Fundamentals LiveLessons \(Video Training\)](#) Doug Eadline,2013 Apache Hadoop is a freely available open source tool set that enables big data analysis This Hadoop Fundamentals LiveLessons tutorial demonstrates the core components of Hadoop including Hadoop Distributed File Systems HDFS and MapReduce In addition the tutorial demonstrates how to use Hadoop at several levels including the native Java interface C pipes and the universal streaming program interface Examples of how to use high level tools include the Pig scripting language and the Hive SQL like interface Finally the steps for installing Hadoop on a desktop virtual machine in a Cloud environment and on a local stand alone cluster are presented Topics covered in this tutorial apply to Hadoop version 2 i e MR2 or Yarn The source code repository for this LiveLesson can be found at www.clustermonkey.net/download LiveLessons Hadoop_Fundamentals About the Author Douglas Eadline PhD began his career as a practitioner and a chronicler of the Linux Cluster HPC revolution and now documents big data analytics Starting with the first Beowulf How To document Dr Eadline has written hundreds of articles white papers and instructional documents covering virtually all aspects of HPC computing Prior to starting and editing the popular ClusterMonkey.net web site in 2005 he served as Editorinchief for ClusterWorld Magazine and was Senior HPC Editor for Linux Magazine Currently he is a consultant to the HPC industry and writes a monthly column in HPC Admin Magazine Both clients and readers have recognized Dr Eadline s ability to present a technological value proposition in a clear and accurate style He has practical hands on experience in many aspects of HPC including hardware and software design benchmarking storage GPU cloud and parallel computing **Data Science Fundamentals Part 1** Jonathan Dinu,2017 20 Hours of Video Instruction Data Science Fundamentals LiveLessons teaches you the foundational concepts theory and techniques you need to know to become an effective data scientist The videos present you with applied example driven lessons in Python and its associated ecosystem of libraries where you get your hands dirty with real datasets and see real results Description If nothing else by the end of this video course you will have analyzed a number of datasets from the wild built a handful of applications and applied machine learning algorithms in

meaningful ways to get real results And along the way you learn the best practices and computational techniques used by a professional data scientist More specifically you learn how to acquire data that is openly accessible on the Internet by working with APIs You learn how to parse XML and JSON data to load it into a relational database About the Instructor Jonathan Dinu is an author researcher and most importantly an educator He is currently pursuing a Ph D in Computer Science at Carnegie Mellon s Human Computer Interaction Institute HCII where he is working to democratize machine learning and artificial intelligence through interpretable and interactive algorithms Previously he founded Zipfian Academy an immersive data science training program acquired by Galvanize has taught classes at the University of San Francisco and has built a Data Visualization MOOC with Udacity In addition to his professional data science experience he has run data science trainings for a Fortune 500 company and taught workshops at Strata PyData and DataWeek among others He first discovered his love of all things data while studying Computer Science and Physics at UC Berkeley and in a former life he worked for Alpine Data Labs developing distributed machine learning algorithms for predictive analytics on Hadoop Jonathan has always had a passion for sharing the things he has learned in the most creative ways he can When he is not working with students you can find him blogging about data visualization and education at hopelessoptimism com or rambling on Twitter jonathandinu

Skill Level Beginner

What You Will Learn How to get up and running with a Python data science environment The essentials of Python 3 including object oriented programming The basics of the data science process and what each step entails How to build a simple yet powerful recommendation engine for Air

Big Data Viktor Mayer-Schonberger, Kenneth Cukier, 2013-03-14 New and expanded edition An International Bestseller Over One Million Copies Sold Shortlisted for the Financial Times Goldman Sachs Business Book of the Year Award Since Aristotle we have fought to understand the causes behind everything But this ideology is fading In the age of big data we can crunch an incomprehensible amount of information providing us with invaluable insights about the what rather than the why We re just starting to reap the benefits tracking vital signs to foresee deadly infections predicting building fires anticipating the best moment to buy a plane ticket seeing inflation in real time and monitoring social media in order to identify trends But there is a dark side to big data Will it be machines rather than people that make the decisions How do you regulate an algorithm What will happen to privacy Will individuals be punished for acts they have yet to commit In this groundbreaking and fascinating book two of the world s most respected data experts reveal the reality of a big data world and outline clear and actionable steps that will equip the reader with the tools needed for this next phase of human evolution

PowerShell for Business Intelligence and Big Data Analytics Brien Posey, 2017 Business intelligence is the science of mining data and using it to derive business value It typically requires complex tools such as Microsoft s Power BI The goal of this video series is to show how to perform custom business analytics and build business dashboards using nothing but PowerShell This video series is entirely hands on It explains key concepts while actually building PowerShell based business intelligence dashboards and applications

Resource description page

Hadoop Fundamentals LiveLessons (Video Training), 2/e Doug Eadline, 2014 Apache Hadoop is a freely available open source tool set that enables big data analysis This Hadoop Fundamentals LiveLessons tutorial demonstrates the core components of Hadoop including Hadoop Distributed File Systems HDFS and MapReduce In addition the tutorial demonstrates how to use Hadoop at several levels including the native Java interface C pipes and the universal streaming program interface Examples of how to use high level tools include the Pig scripting language and the Hive SQL like interface Finally the steps for installing Hadoop on a desktop virtual machine in a Cloud environment and on a local stand alone cluster are presented Topics covered in this tutorial apply to Hadoop version 2 i e MR2 or Yarn About the Author Douglas Eadline PhD began his career as a practitioner and a chronicler of the Linux Cluster HPC revolution and now documents big data analytics Starting with the first Beowulf How To document Dr Eadline has written hundreds of articles white papers and instructional documents covering virtually all aspects of HPC computing Prior to starting and editing the popular ClusterMonkey net web site in 2005 he served as Editor in chief for ClusterWorld Magazine and was Senior HPC Editor for Linux Magazine Currently he is a consultant to the HPC industry and writes a monthly column in HPC Admin Magazine Both clients and readers have recognized Dr Eadline s ability to present a technological value proposition in a clear and accurate style He has practical hands on experience in many aspects of HPC including hardware and software design benchmarking storage GPU cloud and parallel computing

R Programming LiveLessons Jared P. Lander, 2016 R Programming Data Analyst Learning Path is a tour through the most important parts of R the statistical programming language from the very basics to complex modeling It covers reading data programming basics visualization data munging regression classification clustering modern machine learning network analysis web graphics and techniques for dealing with large data both in memory and in databases This 15 hour video teaches you how to program in R even if you are unfamiliar with statistical techniques It starts with the basics of using R and progresses into data manipulation and model building Users learn through hands on practice with the code and techniques New material covers chaining commands faster data manipulation new ways to read rectangular data into R testing code and the hot package Shiny Resource description page

Big Data Fundamentals Thomas Erl, Wajid Khattak, Paul Buhler, 2015-12-29 This text should be required reading for everyone in contemporary business Peter Woodhull CEO Modus21 The one book that clearly describes and links Big Data concepts to business utility Dr Christopher Starr PhD Simply this is the best Big Data book on the market Sam Rostam Cascadian IT Group one of the most contemporary approaches I ve seen to Big Data fundamentals Joshua M Davis PhD The Definitive Plain English Guide to Big Data for Business and Technology Professionals Big Data Fundamentals provides a pragmatic no nonsense introduction to Big Data Best selling IT author Thomas Erl and his team clearly explain key Big Data concepts theory and terminology as well as fundamental technologies and techniques All coverage is supported with case study examples and numerous simple diagrams The authors begin by explaining how Big Data can propel an organization forward

by solving a spectrum of previously intractable business problems Next they demystify key analysis techniques and technologies and show how a Big Data solution environment can be built and integrated to offer competitive advantages Discovering Big Data s fundamental concepts and what makes it different from previous forms of data analysis and data science Understanding the business motivations and drivers behind Big Data adoption from operational improvements through innovation Planning strategic business driven Big Data initiatives Addressing considerations such as data management governance and security Recognizing the 5 V characteristics of datasets in Big Data environments volume velocity variety veracity and value Clarifying Big Data s relationships with OLTP OLAP ETL data warehouses and data marts Working with Big Data in structured unstructured semi structured and metadata formats Increasing value by integrating Big Data resources with corporate performance monitoring Understanding how Big Data leverages distributed and parallel processing Using NoSQL and other technologies to meet Big Data s distinct data processing requirements Leveraging statistical approaches of quantitative and qualitative analysis Applying computational analysis methods including machine learning

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Livelessons Working With Big Data Introduction

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