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Book Scale 7. FP

Growth method with an
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7.1 Linear Search

Algorithm with example

| linear search in C |

Data structures **Data**

**Analysis: Clustering
and Classification**

(Lec. 1, part 1) K-Mean

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~~from Text (USING~~

~~PYTHON) Difference~~

~~between Classification~~

~~and Regression~~

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Collection: Algorithms
Naive Bayes Theorem
explained with simple
example (easy trick)

PageRank Algorithm -
Example *Twitter*

Sentiment Analysis

Using Python Top 5

Computer Science

books every

Programmer must read

Text Mining in Python +

Natural Language

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KNN Algorithm - How

KNN Algorithm

Works With Example |

Data Science For

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Simplilearn Frequent

~~Pattern (FP) growth~~

~~Algorithm for~~

~~Association Rule~~

~~Mining Data Mining~~

~~Algorithms In C~~

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C4.5 is one of the most important Data Mining algorithms, used to produce a decision tree which is an expansion of prior ID3 calculation. It enhances the ID3 algorithm. That is by managing both continuous and discrete properties, missing values.

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-13 Algorithms Used in Data Mining ...

The example code is in C++ and CUDA C but

Python or other code can be substituted; the algorithm is important, not the code that's used to write it. You will:

Combine principal component analysis with forward and backward stepwise selection to identify a

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compact subset of a large collection of variables that captures the maximum possible variation within the entire set.

Modern Data Mining Algorithms in C++ and CUDA C

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Applications 1st ed. by Masters, Timothy (ISBN: 9781484233146) from Amazon's Book Store.

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and Algorithms for Modern Applications —
Timothy Masters

Data Mining Algorithms
in C++

This book presents a collection of data-mining algorithms that are effective in a wide variety of prediction and classification applications. All algorithms include an

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intuitive explanation of operation, essential equations, references to more rigorous theory, and commented C++ source code.

Data Mining Algorithms in C++ - Data Patterns and ...

Furthermore, Data Mining Algorithms in C++ includes classic techniques that are

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widely available in standard statistical packages, such as maximum likelihood factor analysis and varimax rotation. After reading and using this book, you'll come away with many code samples and routines that can be repurposed into your own data mining tools and algorithms toolbox.

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Data Patterns And Algorithms
BitMagic - C and C++ library implementing dynamic bitvectors and bit-set algorithms with several types of on-the-fly, adaptive compression. Designed for use in databases, search systems, data-mining algorithms, scientific projects. The core of the library is

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C++, but it provides C-compatibility wrappers and can be compiled without C++ runtime ...

For Modern data mining algorithms in c free download -

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BitMagic - C and C ++ library implementing dynamic bitvectors and bit-set algorithms with several types of on-the-fly, adaptive

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compression. Designed for use in databases, search systems, data - mining algorithms, scientific projects.

Applications

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Source Code for Data Mining Algorithms in C++ by Timothy Masters - Apress/data-mining-algorithms-cpp

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GitHub - Apress/data-mining-algorithms-cpp: Source Code ...

Furthermore, Data Mining Algorithms in C++ includes classic techniques that are widely available in standard statistical packages, such as maximum likelihood factor analysis and varimax rotation. After

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reading and using this book, you'll come away with many code samples and routines that can be repurposed into your own data mining tools and algorithms toolbox.

Amazon.com: Data Mining Algorithms in C++: Data Patterns ...

This book covers a variety of data-mining algorithms that are

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useful for selecting small sets of important features from among unwieldy masses of candidates, or extracting useful features from measured variables. The example code is in C++ and CUDA C but Python or other code can be substituted.

Modern Data Mining Algorithms in C++ and

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CUDA C - Recent ...

I wonder if we could compile a list of resources for Data

Mining in C#?

Specifically I am looking for

Implementations of Data Mining Algorithms

Open Source Data mining libraries

Tutorials on Data

.net - Data Mining

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Resources for C# - In C

Stack Overflow

A Python

implementation of

divisive and hierarchical clustering algorithms.

The algorithms were

tested on the Human

Gene DNA Sequence

dataset and

dendrograms were

plotted. data-mining

clustering data-mining-

algorithms hierarchical-

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clustering agglomerative-
clustering dendrogram
divisive-clustering

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Applications

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Before data mining algorithms can be used, a target data set must be assembled. As data mining can only

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uncover patterns actually present in the data, the target data set must be large enough to contain these patterns while remaining concise enough to be mined within an acceptable time limit. A common source for data is a data mart or data ...

Data mining -
Wikipedia

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The k-means algorithm is a simple iterative clustering algorithm that partitions a given dataset into a user-specified number of clusters, k . The algorithm is simple to implement and run, relatively fast, easy to adapt, and common in practice. It is historically one of the most important

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algorithms in data mining.

The Top Ten Algorithms in Data Mining

Data mining algorithms vary from one to another, each one has its own pros and cons, i will not go through that in this article but the first one you should focus on must be the

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classical Apriori ...

Data Mining — A Focus
on Apriori Algorithm |
by Racha ...

Frequent itemsets can be found using two methods, viz Apriori Algorithm and FP growth algorithm. Apriori algorithm generates all itemsets by scanning the full transactional database.

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Whereas the FP growth algorithm only generates the frequent itemsets according to the minimum support defined by the user.

Understanding FP
(Frequent Pattern)
Growth Algorithm in ...

This book presents a collection of data-mining algorithms that are effective in a wide

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variety of prediction and classification applications. All algorithms include an intuitive explanation of operation, essential equations, references to more rigorous theory, and commented C++ source code.

Discover hidden

Page 32/92

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relationships among the variables in your data, and learn how to exploit these relationships. This book presents a collection of data-mining algorithms that are effective in a wide variety of prediction and classification applications. All algorithms include an intuitive explanation of operation, essential

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equations, references to more rigorous theory, and commented C++ source code. Many of these techniques are recent developments, still not in widespread use. Others are standard algorithms given a fresh look. In every case, the focus is on practical applicability, with all code written in such a way that it can easily be

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included into any program. The Windows-based DATAMINE program lets you experiment with the techniques before incorporating them into your own work. What You'll Learn Use Monte-Carlo permutation tests to provide statistically sound assessments of relationships present in your data Discover how

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combinatorially symmetric cross validation reveals whether your model has true power or has just learned noise by overfitting the data

Work with feature weighting as regularized energy-based learning to rank variables according to their predictive power when there is too little data for traditional

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methods See how the eigenstructure of a dataset enables clustering of variables into groups that exist only within meaningful subspaces of the data

Plot regions of the variable space where there is disagreement between marginal and actual densities, or where contribution to mutual information is

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high Who This Book Is For Anyone interested in discovering and exploiting relationships among variables.

Although all code examples are written in C++, the algorithms are described in sufficient detail that they can easily be programmed in any language.

Discover hidden

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relationships among the variables in your data, and learn how to exploit these relationships. This book presents a collection of data-mining algorithms that are effective in a wide variety of prediction and classification applications. All algorithms include an intuitive explanation of operation, essential

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included into any program. The Windows-based DATAMINE program lets you experiment with the techniques before incorporating them into your own work. What You'll Learn Use Monte-Carlo permutation tests to provide statistically sound assessments of relationships present in your data Discover how

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Although all code examples are written in C++, the algorithms are described in sufficient detail that they can easily be programmed in any language.

Discover a variety of

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data-mining algorithms that are useful for selecting small sets of important features from among unwieldy masses of candidates, or extracting useful features from measured variables. As a serious data miner you will often be faced with thousands of candidate features for your prediction or

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classification application, with most of the features being of little or no value. You'll know that many of these features may be useful only in combination with certain other features while being practically worthless alone or in combination with most others. Some features may have enormous predictive

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power, but only within a small, specialized area of the feature space. The problems that plague modern data miners are endless. This book helps you solve this problem by presenting modern feature selection techniques and the code to implement them. Some of these techniques are: Forward selection component

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analysis Local feature selection Linking features and a target with a hidden Markov model Improvements on traditional stepwise selection Nominal-to-ordinal conversion All algorithms are intuitively justified and supported by the relevant equations and explanatory material.

The author also presents

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and explains complete, highly commented source code. The example code is in C++ and CUDA C but Python or other code can be substituted; the algorithm is important, not the code that's used to write it. What You Will Learn Combine principal component analysis with forward and backward stepwise

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selection to identify a compact subset of a large collection of variables that captures the maximum possible variation within the entire set. Identify features that may have predictive power over only a small subset of the feature domain.

Such features can be profitably used by modern predictive

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models but may be missed by other feature selection methods. Find an underlying hidden Markov model that controls the distributions of feature variables and the target simultaneously. The memory inherent in this method is especially valuable in high-noise applications such as prediction of financial

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markets. Improve traditional stepwise selection in three ways: examine a collection of 'best-so-far' feature sets; test candidate features for inclusion with cross validation to automatically and effectively limit model complexity; and at each step estimate the probability that our results so far could be

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just the product of random good luck. We also estimate the probability that the improvement obtained by adding a new variable could have been just good luck. Take a potentially valuable nominal variable (a category or class membership) that is unsuitable for input to a prediction model, and

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assign to each category a sensible numeric value that can be used as a model input. Who This Book Is For Intermediate to advanced data science programmers and analysts. C++ and CUDA C experience is highly recommended. However, this book can be used as a framework using other languages

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such as Python.

Data Patterns And Algorithms For Modern Applications

In my decades of custom programming and consultation, I have explored diverse applications, including automated analysis of high-altitude photographs, automated medical diagnosis, realtime detection of threatening military vehicles, and automated

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trading of financial markets. A common thread in all of these applications is that I was faced with a multitude of observed or computed variables, and my task involved finding and analyzing relationships among these variables. As a result, I have accumulated a wealth of algorithms for doing so.

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This book presents theoretical and intuitive justifications, along with highly commented source code, for my favorite data-mining techniques. This book makes no pretense of being 'complete' in any manner whatsoever.

Please do not be annoyed if your own favorite techniques did not make my cut, or if

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the book ignores some popular standard techniques. These are simply the algorithms that I have found most useful in my own work over the years. Some of them are venerable old techniques such as the use of maximum-likelihood factor analysis for determining the degree to which variables contain unique

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information, versus being redundant due to hidden common factors impacting several variables. Some of them are powerful modern techniques, such as Combinatorially Symmetric Cross Validation for determining if a model is hampered by overfitting, or Feature Weighting as

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Regularized Energy-Based Learning for ranking variables in predictive power when there are too few training cases to employ traditional methods.

Some of them are (I believe) my own invention, such as a method for clustering variables in the restricted context of a subspace of interest, and

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visual display of anomalous regions in which joint and marginal densities conflict, or in which contribution to mutual information is concentrated. But all of them share a great quality: I have found them to be exceptionally useful in my own data-mining endeavors. I suspect that you will as

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well.

Data Patterns And Algorithms For Modern Applications
This textbook explores the different aspects of data mining from the fundamentals to the complex data types and their applications, capturing the wide diversity of problem domains for data mining issues. It goes beyond the traditional focus on data mining problems to

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introduce advanced data types such as text, time series, discrete sequences, spatial data, graph data, and social networks. Until now, no single book has addressed all these topics in a comprehensive and integrated way. The chapters of this book fall into one of three categories: Fundamental

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chapters: Data mining has four main problems, which correspond to clustering, classification, association pattern mining, and outlier analysis. These chapters comprehensively discuss a wide variety of methods for these problems. Domain chapters: These chapters discuss the specific

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Algorithms In C
Data Patterns
And Algorithms
For Modern
Applications

methods used for different domains of data such as text data, time-series data, sequence data, graph data, and spatial data. Application chapters: These chapters study important applications such as stream mining, Web mining, ranking, recommendations, social networks, and privacy preservation.

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The domain chapters also have an applied flavor. Appropriate for both introductory and advanced data mining courses, *Data Mining: Applications* balances mathematical details and intuition. It contains the necessary mathematical details for professors and researchers, but it is presented in a simple

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and intuitive style to improve accessibility for students and industrial practitioners (including those with a limited mathematical background). Numerous illustrations, examples, and exercises are included, with an emphasis on semantically interpretable examples. Praise for Data Mining:

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The Textbook - "As I read through this book, I have already decided to use it in my classes.

This is a book written by an outstanding researcher who has made fundamental contributions to data mining, in a way that is both accessible and up to date. The book is complete with theory and practical use cases.

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It's a must-have for students and professors alike!" -- Qiang Yang, Chair of Computer Science and Engineering at Hong Kong University of Science and Technology

"This is the most amazing and comprehensive text book on data mining. It covers not only the fundamental problems,

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such as clustering, classification, outliers and frequent patterns, and different data types, including text, time series, sequences, spatial data and graphs, but also various applications, such as recommenders, Web, social network and privacy. It is a great book for graduate students and researchers

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as well as practitioners."

-- Philip S. Yu, UIC
Distinguished Professor
and Wexler Chair in
Information Technology
at University of Illinois
at Chicago

Identifying some of the
most influential
algorithms that are
widely used in the data
mining community, The
Top Ten Algorithms in

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Data Mining provides a description of each algorithm, discusses its impact, and reviews current and future research. Thoroughly evaluated by independent reviewers, each chapter focuses on a particular algorithm and is written by either the original authors of the algorithm or world-class researchers who

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have extensively studied the respective algorithm. The book concentrates on the following important algorithms:

C4.5, k-Means, SVM, Apriori, EM, PageRank, AdaBoost, kNN, Naive Bayes, and CART.

Examples illustrate how each algorithm works and highlight its overall performance in a real-world application. The

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text covers key topics—including classification, clustering, statistical learning, association analysis, and link mining—in data mining research and development as well as in data mining, machine learning, and artificial intelligence courses. By naming the leading algorithms in this field,

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this book encourages the use of data mining techniques in a broader realm of real-world applications. It should inspire more data mining researchers to further explore the impact and novel research issues of these algorithms.

Advances in hardware technology have

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increased the capability to store and record personal data. This has caused concerns that personal data may be abused. This book proposes a number of techniques to perform the data mining tasks in a privacy-preserving way. This edited volume contains surveys by distinguished researchers in the

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privacy field. Each survey includes the key research content as well as future research directions of a particular topic in privacy. The book is designed for researchers, professors, and advanced-level students in computer science, but is also suitable for practitioners in industry.

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Data Mining for Business Analytics: Concepts, Techniques, and Applications in Python presents an applied approach to data mining concepts and methods, using Python software for illustration. Readers will learn how to implement a variety of popular data mining algorithms in Python (a free and open-source

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software) to tackle business problems and opportunities. This is the sixth version of this successful text, and the first using Python. It covers both statistical and machine learning algorithms for prediction, classification, visualization, dimension reduction, recommender systems, clustering, text

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mining and network analysis. It also includes: A new co-author, Peter Gedeck, who brings both experience teaching business analytics courses using Python, and expertise in the application of machine learning methods to the drug-discovery process
A new section on ethical issues in data mining

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help readers gauge and expand their comprehension and competency of the material presented. A companion website with more than two dozen data sets, and instructor materials including exercise solutions, PowerPoint slides, and case solutions.

Data Mining for Business Analytics: Concepts,

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Techniques, and Applications in Python is an ideal textbook for graduate and upper-undergraduate level courses in data mining, predictive analytics, and business analytics. This new edition is also an excellent reference for analysts, researchers, and practitioners working with quantitative methods in

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the fields of business, finance, marketing, computer science, and information technology.

“This book has by far the most comprehensive review of business analytics methods that I have ever seen, covering everything from classical approaches such as linear and logistic regression, through to modern

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methods like neural networks, bagging and boosting, and even much more business specific procedures such as social network analysis and text mining. If not the bible, it is at the least a definitive manual on the subject.” —Gareth M.

James, University of Southern California and co-author (with Witten,

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Hastie and Tibshirani)
of the best-selling book
Data Patterns
An Introduction to
Statistical Learning,
with Applications in R

Applications
"This book narrows
down the scope of data
mining by adopting a
heavily modeling-
oriented perspective"--

Handbook of Statistical
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Applications, C
Second Edition, is a
Data Patterns
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professional reference
book that guides
business analysts,
scientists, engineers and
researchers, both
academic and industrial,
through all stages of
data analysis, model
building and
implementation. The
handbook helps users

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discern technical and business problems, understand the strengths and weaknesses of modern data mining algorithms and employ the right statistical methods for practical application. This book is an ideal reference for users who want to address massive and complex datasets with novel statistical

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It has clear, intuitive explanations of the principles and tools for solving problems using modern analytic techniques and discusses their application to real problems in ways accessible and beneficial to

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