



Text Mining: Predictive Methods for Analyzing Unstructured Information

By Sholom M. Weiss, Nitin Indurkha, Tong Zhang, Fred Damerau

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Data mining is a mature technology. The prediction problem, looking for predictive patterns in data, has been widely studied. Strong methods are available to the practitioner. These methods process structured numerical information, where uniform measurements are taken over a sample of data. Text is often described as unstructured information. So, it would seem, text and numerical data are different, requiring different methods. Or are they? In our view, a prediction problem can be solved by the same methods, whether the data are structured - numerical measurements or unstructured text. Text and documents can be transformed into measured values, such as the presence or absence of words, and the same methods that have proven successful for predictive data mining can be applied to text. Yet, there are key differences. Evaluation techniques must be adapted to the chronological order of publication and to alternative measures of error. Because the data are documents, more specialized analytical methods may be preferred for text. Moreover, the methods must be modified to accommodate very high dimensions: tens of thousands of words and documents. Still, the central themes are similar.

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Editorial Review

From the Back Cover

One consequence of the pervasive use of computers is that most documents originate in digital form. Text mining—the process of searching, retrieving, and analyzing unstructured, natural-language text—is concerned with how to exploit the textual data embedded in these documents.

Text Mining presents a comprehensive introduction and overview of the field, integrating related topics (such as artificial intelligence and knowledge discovery and data mining) and providing practical advice on how readers can use text-mining methods to analyze their own data. Emphasizing predictive methods, the book unifies all key areas in text mining: preprocessing, text categorization, information search and retrieval, clustering of documents, and information extraction. In addition, it identifies emerging directions for those looking to do research in the area. Some background in data mining is beneficial, but not essential.

Topics and features:

- * Presents a comprehensive and easy-to-read introduction to text mining
- * Explores the application and utility of the methods, as well as the optimal techniques for specific scenarios
- * Provides several descriptive case studies that take readers from problem description to system deployment in the real world
- * Uses methods that rely on basic statistical techniques, thus allowing for relevance to all languages (not just English)
- * Includes access to downloadable software (runs on any computer), as well as useful chapter-ending historical and bibliographical remarks, a detailed bibliography, and subject and author indexes

This authoritative and highly accessible text, written by a team of authorities on text mining, develops the foundation concepts, principles, and methods needed to expand beyond structured, numeric data to automated mining of text samples. Researchers, computer scientists, and advanced undergraduates and graduates with work and interests in data mining, machine learning, databases, and computational linguistics will find the work an essential resource.

Users Review

From reader reviews:

Deborah Martins:

Do you considered one of people who can't read enjoyable if the sentence chained within the straightway,

hold on guys this aren't like that. This Text Mining: Predictive Methods for Analyzing Unstructured Information book is readable by you who hate the perfect word style. You will find the information here are arrange for enjoyable reading through experience without leaving possibly decrease the knowledge that want to provide to you. The writer of Text Mining: Predictive Methods for Analyzing Unstructured Information content conveys the thought easily to understand by most people. The printed and e-book are not different in the information but it just different as it. So , do you continue to thinking Text Mining: Predictive Methods for Analyzing Unstructured Information is not loveable to be your top record reading book?

James Hose:

People live in this new time of lifestyle always aim to and must have the extra time or they will get lot of stress from both day to day life and work. So , when we ask do people have free time, we will say absolutely of course. People is human not only a robot. Then we request again, what kind of activity have you got when the spare time coming to you actually of course your answer will unlimited right. Then do you try this one, reading publications. It can be your alternative with spending your spare time, the particular book you have read will be Text Mining: Predictive Methods for Analyzing Unstructured Information.

Betty Giuliani:

Reading can called imagination hangout, why? Because if you are reading a book particularly book entitled Text Mining: Predictive Methods for Analyzing Unstructured Information your mind will drift away trough every dimension, wandering in every aspect that maybe mysterious for but surely can become your mind friends. Imaging each and every word written in a reserve then become one contact form conclusion and explanation that will maybe you never get just before. The Text Mining: Predictive Methods for Analyzing Unstructured Information giving you another experience more than blown away your mind but also giving you useful details for your better life in this particular era. So now let us explain to you the relaxing pattern the following is your body and mind is going to be pleased when you are finished examining it, like winning a sport. Do you want to try this extraordinary wasting spare time activity?

Ethel Swafford:

Is it a person who having spare time and then spend it whole day by means of watching television programs or just laying on the bed? Do you need something totally new? This Text Mining: Predictive Methods for Analyzing Unstructured Information can be the respond to, oh how comes? The new book you know. You are consequently out of date, spending your extra time by reading in this new era is common not a geek activity. So what these books have than the others?

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