

Python Programming Text And Web Mining

Text mining

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Text mining, text data mining (TDM) or text analytics is the process of deriving high-quality information from text. It involves "the discovery by computer of new, previously unknown information, by automatically extracting information from different written resources." Written resources may include websites, books, emails, reviews, and articles. High-quality information is typically obtained by devising patterns and trends by means such as statistical pattern learning. According to Hotho et al. (2005), there are three perspectives of text mining: information extraction, data mining, and knowledge discovery in databases (KDD). Text mining usually involves the process of structuring the input text (usually parsing, along with the addition of some derived linguistic features and the removal of...

List of text mining software

(NLP) for the Python programming language. OpenNLP - natural language processing. Orange with its text mining add-on. The PLOS Text Mining Collection. The

Text mining computer programs are available from many commercial and open source companies and sources.

List of Python software

The Python programming language is actively used by many people, both in industry and academia, for a wide variety of purposes. Atom, an open source cross-platform

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Data mining

learning library for the Python programming language; Torch: An open-source deep learning library for the Lua programming language and scientific computing

Data mining is the process of extracting and finding patterns in massive data sets involving methods at the intersection of machine learning, statistics, and database systems. Data mining is an interdisciplinary subfield of computer science and statistics with an overall goal of extracting information (with intelligent methods) from a data set and transforming the information into a comprehensible structure for further use. Data mining is the analysis step of the "knowledge discovery in databases" process, or KDD. Aside from the raw analysis step, it also involves database and data management aspects, data pre-processing, model and inference considerations, interestingness metrics, complexity considerations, post-processing of discovered structures, visualization, and online updating.

The term...

WebAssembly

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WebAssembly (Wasm) defines a portable binary-code format and a corresponding text format for executable programs as well as software interfaces for facilitating communication between such programs and their host environment.

The main goal of WebAssembly is to facilitate high-performance applications on web pages, but it is also designed to be usable in non-web environments. It is an open standard intended to support any language on any operating system, and in practice many of the most popular languages already have at least some level of support.

Announced in 2015 (2015) and first released in March 2017 (2017-03), WebAssembly became a World Wide Web Consortium recommendation on 5 December 2019 and it received the Programming Languages Software Award from ACM SIGPLAN in 2021. The World Wide...

Web scraping

from web pages can be based on the UNIX grep command or regular expression-matching facilities of programming languages (for instance Perl or Python). Static

Web scraping, web harvesting, or web data extraction is data scraping used for extracting data from websites. Web scraping software may directly access the World Wide Web using the Hypertext Transfer Protocol or a web browser. While web scraping can be done manually by a software user, the term typically refers to automated processes implemented using a bot or web crawler. It is a form of copying in which specific data is gathered and copied from the web, typically into a central local database or spreadsheet, for

later retrieval or analysis.

Scraping a web page involves fetching it and then extracting data from it. Fetching is the downloading of a page (which a browser does when a user views a page). Therefore, web crawling is a main component of web scraping, to fetch pages for later processing...

PyQt

extensible open-source Python IDE OpenLP, an open-source lyrics projection program OpenShot, a video editing program Orange, a data mining and visualization framework

PyQt is a Python binding of the cross-platform GUI toolkit Qt, implemented as a Python plug-in. PyQt is free software developed by the British firm Riverbank Computing. It is available under similar terms to Qt versions older than 4.5; this means a variety of licenses including GNU General Public License (GPL) and commercial license, but not the GNU Lesser General Public License (LGPL). PyQt supports Microsoft Windows as well as various kinds of UNIX, including Linux and macOS.

PyQt implements around 440 classes and over 6,000 functions and methods including:

- a substantial set of GUI widgets

- classes for accessing SQL databases (ODBC, MySQL, PostgreSQL, Oracle, SQLite)

- QScintilla, Scintilla-based rich text editor widget

- data aware widgets that are automatically populated from a database

an...

List of statistical software

environment and programming language with many statistical and econometric analysis features SPSS Modeler – comprehensive data mining and text analytics

The following is a list of statistical software.

Visual programming language

computing, a visual programming language (visual programming system, VPL, or, VPS), also known as diagrammatic programming, graphical programming or block coding

In computing, a visual programming language (visual programming system, VPL, or, VPS), also known as diagrammatic programming, graphical programming or block coding, is a programming language that lets users create programs by manipulating program elements graphically rather than by specifying them textually. A VPL allows programming with visual expressions, spatial arrangements of text and graphic symbols, used either as elements of syntax or secondary notation. For example, many VPLs are based on the idea of "boxes and arrows", where boxes or other screen objects are treated as entities, connected by arrows, lines or arcs which represent relations. VPLs are generally the basis of low-code development platforms.

List of free and open-source software packages

visualization and data mining for novice and experts, through visual programming or Python scripting. Extensions for bioinformatics and text mining RapidMiner

This is a list of free and open-source software (FOSS) packages, computer software licensed under free software licenses and open-source licenses. Software that fits the Free Software Definition may be more appropriately called free software; the GNU project in particular objects to their works being referred to as open-source. For more information about the philosophical background for open-source software, see free software movement and Open Source Initiative. However, nearly all software meeting the Free Software Definition also meets the Open Source Definition and vice versa. A small fraction of the software that meets either definition is listed here. Some of the open-source applications are also the basis of commercial products, shown in the List of commercial open-source applications...

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