

By Tan Steinbach Kumar

Jaccard index

1–28. doi:10.1186/s12880-015-0068-x. PMC 4533825. PMID 26263899. Tan PN, Steinbach M, Kumar V (2005). *Introduction to Data Mining*. Pearson Addison Wesley

The Jaccard index is a statistic used for gauging the similarity and diversity of sample sets.

It is defined in general taking the ratio of two sizes (areas or volumes), the intersection size divided by the union size, also called intersection over union (IoU).

It was developed by Grove Karl Gilbert in 1884 as his ratio of verification (v) and now is often called the critical success index in meteorology. It was later developed independently by Paul Jaccard, originally giving the French name coefficient de communauté (coefficient of community), and independently formulated again by Taffee Tadashi Tanimoto. Thus, it is also called Tanimoto index or Tanimoto coefficient in some fields.

Cosine similarity

Technical Committee on Data Engineering 24 (4): 35–43. P.-N. Tan, M. Steinbach & V. Kumar, Introduction to Data Mining, Addison-Wesley (2005), ISBN 0-321-32136-7

In data analysis, cosine similarity is a measure of similarity between two non-zero vectors defined in an inner product space. Cosine similarity is the cosine of the angle between the vectors; that is, it is the dot product of the vectors divided by the product of their lengths. It follows that the cosine similarity does not depend on the magnitudes of the vectors, but only on their angle. The cosine similarity always belongs to the interval

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For example, two proportional vectors have a cosine similarity of +1, two orthogonal vectors have a similarity of 0, and two opposite vectors have a similarity of −1. In some contexts, the component values of the vectors...

Association rule learning

management systems",. ResearchGate. Retrieved 2021-12-10. Tan, Pang-Ning; Michael, Steinbach; Kumar, Vipin (2005). "Chapter 6. Association Analysis: Basic

Association rule learning is a rule-based machine learning method for discovering interesting relations between variables in large databases. It is intended to identify strong rules discovered in databases using some measures of interestingness. In any given transaction with a variety of items, association rules are meant to discover the rules that determine how or why certain items are connected.

Based on the concept of strong rules, Rakesh Agrawal, Tomasz Imieliński and Arun Swami introduced association rules for discovering regularities between products in large-scale transaction data recorded by point-of-sale (POS) systems in supermarkets. For example, the rule

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Data mining

Information Science Reference, ISBN 978-1-59904-162-9 Tan, Pang-Ning; Steinbach, Michael; and Kumar, Vipin (2005); Introduction to Data Mining, ISBN 0-321-32136-7

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...

Non-denominational Muslim

Nevin. "American Journal of Islamic Social Sciences 21:2". Ende, Werner; Steinbach, Udo (15 December 2011). Islam in the World Today: A Handbook of Politics

Non-denominational Muslims (Arabic: مسلمون بلا طائفة) are Muslims who do not belong to, do not self-identify with, or cannot be readily classified under one of the identifiable Islamic schools and branches. Such Muslims do not think of themselves as belonging to a denomination but rather as "just Muslims" or "non-denominational Muslims." Muslims who do not adhere to a sect are also known as non-sectarian Muslims.

While the majority of the population in the Middle East identify as either Sunni or Shi'a, a significant number of Muslims identify as non-denominational. According to a 2012 study by the Pew Research Center, Muslims who do not identify with a sect and identify as "just a Muslim" make up a majority of the Muslims in these countries: Kazakhstan (74%), Albania (65%), Kyrgyzstan (64%...

Virtual team

significantly in the degree to which they took action to protect their employees. Steinbach, Kautz and Korsgaard (2021) found that these firm compensation actions

A virtual team (also known as a geographically dispersed team, distributed team, or remote team) usually refers to a group of individuals who work together from different geographic locations and rely on communication technology such as email, instant messaging, and video or voice conferencing services in order to collaborate. The term can also refer to groups or teams that work together asynchronously or across organizational levels. Powell, Piccoli and Ives (2004) define virtual teams as "groups of geographically, organizationally and/or time dispersed workers brought together by information and telecommunication technologies to accomplish one or more organizational tasks." As documented by Gibson (2020), virtual teams grew in importance and number during 2000-2020, particularly in light...

Afghanistan

found in the Tang

e Azao Valley in the Ghor region ... Ende, Werner; Steinbach, Udo (15 April 2010). Islam in the World Today: A Handbook of Politics - Afghanistan, officially the Islamic Emirate of Afghanistan, is a landlocked country located at the crossroads of Central and South Asia. It is bordered by Pakistan to the east and south, Iran to the west, Turkmenistan to the northwest, Uzbekistan to the north, Tajikistan to the northeast, and China to the northeast and east. Occupying 652,864 square kilometers (252,072 sq mi) of land, the country is predominantly mountainous with plains in the north and the southwest, which are separated by the Hindu Kush mountain range. Kabul is the country's capital and largest city. Afghanistan's population is estimated to be between 36 and 50 million.

Human habitation in Afghanistan dates to the Middle Paleolithic era. Popularly referred to as the graveyard of empires, the land has witnessed numerous military...

Germany at the 2008 Summer Olympics

29 May, 23 June and 15 July 2008. Reaching the qualification standard set by the relevant sport's international governing body did not automatically mean

Germany competed at the 2008 Summer Olympics in Beijing, People's Republic of China. A total of 439 athletes were nominated to participate in the Games. The German Olympic Sports Confederation (German: Deutscher Olympischer Sportbund, DOSB) nominated athletes on 29 May, 23 June and 15 July 2008.

Reaching the qualification standard set by the relevant sport's international governing body did not automatically mean that the athlete was nominated for Beijing, as the DOSB had stricter qualification standards. An athlete needed to have a somewhat realistic chance for a top 12 position. An exception to this are the team events, as the number of competing teams is already very limited through the IOC standards, and a chance for a respective place is already given by the qualification.

Wikipedia:Articles for deletion/Disha Ravi

(talk) 21:43, 14 February 2021 (UTC) Delete Per analysis of sources by Aman.kumar.goel. Lacks significant coverage in reliable sources apart from those

The following discussion is an archived debate of the proposed deletion of the article below. Please do not modify it. Subsequent comments should be made on the appropriate discussion page (such as the article's talk page or in a deletion review). No further edits should be made to this page.

The result was no consensus. After extended time for discussion, there is a clear absence of consensus and a well-supported argument that the subject was already notable in terms of coverage prior to the arrest that serves as the basis of the WP:BLP1E assertion. Given the volume and divided nature of participation, it does not appear that further relisting will yield a clearer resolution. BD2412 T 19:48, 22 February 2021 (UTC)[reply]

Wikipedia:Articles for deletion/Log/2021 February 14

appear to be that notable after all. In case of doubt, don't delete. Steinbach (talk) 16:50, 16 February 2021 (UTC) Keep Also as per others in support

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