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n Asked 5th May, 2015

Govind Kore

Walchand College of Engineering, Sangli

we get the similarity score between two vectors?

e we have two vectors of same size but containing different values such as X=[1 2 3 4] & Y=[5 6 7 4].

ruld we get the similarity score? Correlation coefficients or any better method is there to provide better

on Coefficient Linear Algebra

Share ✓

5th May, 2015





Most of the human genome isn't bein

3)

Rana Momani

Qassim University

vind

ons can be extracted by use the canonical correlations, it is suitable for finding relationship between sets of variables).

k

ww.cs.cmu.edu/~tom/10701_sp11/slides/CCA_tutorial.pdf

w.google.com.sa/url?

<u>=j&q=&esrc=s&frm=1&source=web&cd=7&cad=rja&uact=8&ved=0CF4QFjAG&url=http%3A%2F%2Fw:du%2Frss%2Fclass%2Fmike%2F6810%2FCancorr.pdf&ei=tW1WVfjlB8z1UM_PgbgM&usg=AFQjCNEc2-i3puhQFiTDh_C8UJeA</u>

Neil J Calkin

Clemson University

5th May, 2015

ends on what you mean by "similar": for example, if similar means close in Euclidean distance, just the length of |u-v|. On the other hand, if similar means "in similar directions", compute the angle the vectors: (u.v)/(|u||v|).

ımendation

Wiwat Wanicharpichat

Naresuan University

5th May, 2015

ity score means any sensible measure of the length of $|\mathbf{x} - \mathbf{y}|$, the vector norms relationship is provide its.

In. Two norms $\|\cdot\|_{\alpha}$ and $\|\cdot\|_{\beta}$ on a vector space X are called *equivalent* if there exist positive constants 2 such that

 $||\mathbf{x}||_{\alpha} \le c_2 ||\mathbf{x}||_{\beta}, \forall \mathbf{x} \in X.$

nple, $\forall x, y \in \mathbb{C}^n$;

 $||x - y||_2 \le ||x - y||_1 \le \sqrt{|x - y||_2} \le ||x - y||_2 \le ||x - y||_{\infty}.$

Similar questions and discussions

How to measure the similarity betwee signal?

Question

77 answers

Asked 3rd Mar, 2015

Mohammadreza Meidani

Hi all

I have two signals A and B, which the amplitude of them are not same, but th same characteristics(like peaks). I wan measure the similarity between these s used a multiplier to bring the amplitude signals to a same amount. in next step this relationship: error=A-B and depend the amount of error I will say how much signals are similar to each other. But the another problem. The time of occurring was not same. So even if two signals via same, the error would not be equal to a my question is this: is there any way to calculate the similarity of two signal wit condition?

I attached two signals to redeploy my r better.(photos and mat files of signals)



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Please how we can calculate the distal (similarity) between two vectors with di lengths. We can't use the Euclidean dis (sum of $|| xi-yi||^2$)^{0.5}.

For instance if we have A=[0,1] and BI [0,1,0,1] (for example a periodic seque), how much the similarity rate (or the c?

View

What is the best way to measure the similarity and difference between tw vectors of real numbers?

Question

9 answers

Asked 10th Oct, 2015

Gurusamy Jeyakumar

I need these measurement for the dive analysis of population of vectors

View

What is the most appropriate similar measure to choose in high dimensic spaces?

Question

4 answers

Asked 5th May, 2016

Luca Pappalardo

Every object in my dataset is described vector of n=20 features. All the features integers but they have different scales. to choose a measure to evaluate the si of two objects in the dataset. I have to the following condition: Two feature vewhich are identical (i.e., they have exasame numbers), must have the same s value. I already tried different similarity measure, like dot product and cosine similarity:

- 1. **Dot product** does not work in my capecause the similarity measure deputhe specific numbers in the feature variety For example given these two objects 2, 30, 4, 5], b=[2, 2, 30, 4, 5], then similarity(a, b)=949. Given these two vectors c=[2, 2, 300, 4, 5], d=[2, 2, 35], then similarity(c, d)=90049. I war similarity to be the same number in cases, i.e., similarity(a, b) = similarity
- 2. Cosine similarity does not work in because it only takes into account the between the vectors. I also need to account magnitude. For example, ging these two objects a=[2, 2, 30, 4, 5], 60, 8, 10] then similarity(a, b) = 1 (the maximum similarity). Since the nume the feature vectors are different, in near their similarity should be not the maximum.

It is seems to me that standardizing the features and using an **Euclidean dista** Manhattan distance or in general a Mir distance is the most suitable solution. (suggest me other distance measures the more suitable for my scenario?

Viev

What is the best way to measure tex similarities based on word2vec word embeddings?

Question

17 answers

Asked 9th Sep. 2015



What is the best way right now to meastext similarity between two documents on the word2vec word embeddings?

We used word2vec to create word embeddings (vector representations fo words).

Now we want to use these word ember to measure the text similarity between documents.

Which technique it the best right now to calculate text similarity using word embeddings?

Thanks.

View

How to measure similarity or dissim between two data set?

Question

14 answers

Asked 12th Dec, 2013

Susant Kumar Panigrahi

How to measure similarity between two vectors, as like "Correlation coefficient"

View

How to get a euclidean distance with range 0-1?

Question

7 answers

Asked 8th Aug, 2018

Izham Jaya

I have a set a={x1,x2,x3}, b={y1,y2,y3} {z1,z2,z3}. X are financial variables fro dataset, Y and Z are financial variables other dataset. Each value is in thousan I want to find which set (set b or set c) to set a. So, I used the euclidean distar But, the resulted distance is too big bethe difference between value is thousa dollar. Hence, I divided each distance wean of set a to make it smaller with ra 0-1:

Distance (b,a) = euclidean(b,a)/mean(a

Distance $(c,a) = euclidean(c,a)/mean(\epsilon)$

I'm not sure if this is mathematically co not. Is there any better way?

View

Can someone differentiate between Adjusted cosine, and Pearson corre similarity measuring techniques?

Question

4 answers

Asked 3rd Mar, 2017

Zafar Ali

Different similarity measuring technique been used in finding similarity between profiles. However, what is the differenc between these techniques, in which circumstances we should use one of th would be better if someone explain it b help of example.

View

How to compute difference between feature vectors of a deep neural net

Question

6 answers

Asked 7th Jul, 2016

Talha Zafar

I am trying to create a threshold where difference between the feature vectors different images of same person should below that threshold while two different must cross that threshold. What meast comparison should i use to to find this threshold. As of now i subtract the two vectors and calculate the resultant's magnitude which turns out to be a very number for same people and that there pattern in it. Sometimes for different pe will be a smaller number. What mathen function can i use for this? I would be t if you could provide me some help on t

Regards

View

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