Eigen vector and eigen value

Ramanandh25	Aug 5	Aug 5
can some one give me an intuitive explanation of what eigen vector and eigen value are and if possible they are used in pagerank TIA	ole how	1/8 Aug 6
ThamNgapWei	Aug 5	
This post may help you, cheers		
Ramanandh25	Aug 6	
Thank you very much I will check it		
Adrian Chief PylmageSearcher	Aug 6	
Here is another intuitive explanation of Eigenvectors and Eigenvalues. I personally like this visualizat because it's so visual:	ion	Aug 21
http://setosa.io/ev/eigenvectors-and-eigenvalues/		• 0
If you're looking to level-up your Linear Algebra skills, I can't suggest enough the Coding the Matrix b	ook:	
http://codingthematrix.com/		
leonardo.honorio	Aug 18	
by the time you must already figured out, but a very good visualization is to image a number of points		
space and also imagine a oriented bounding box around them. The eigenvectors of the covariance me those points are alined with the axes of the OB. The eigenvalues represents how those points are speach axis. The biggest eigenvalue indicates the direction of the larger axis of the OBB. sorry for the late answer, i was traveling around.	natrix of	
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by the time you must already figured out, but a very good visualization is to image a number of points in 2D space and also imagine a oriented bounding box around them.

I might be making this up, but isn't that typically referred to as the "shadow" of the data since we are visualizing the points in a 2D space rather than the original N-dimensional space? I've also heard of this technique as the "data shadow", but I can't remember where I originally heard the term from.

leonardo.honorio Aug 20

Hi, it was the first time i heard about "data shadow", i google it and the definition i found is a bit out of context (https://www.techopedia.com/definition/28091/data-shadow). but as it is new to me, i don't know if there is more then one concept of that. Another possibility is that i may be missing some point in the concept..... The OBB can be used in n-dimensional space, in fact it is used to find collisions in games (Gottschalk, S., Lin, M. & Manocha, D. (1996). Obbtree: a hierarchical structure for rapid interference detection. In Proceedings of the 23rd Annual Conference on Computer Graphics and Interactive Techniques, ACM (pp. 171–180)). I also can be used to build a neural network classifier (http://link.springer.com/article/10.1007%2Fs40313-014-0119-5). cheers!

Adrian Chief PylmageSearcher

Aug 21

It could very well be that my memory regarding the "data shadow" isn't correct. I just vaguely remember one of my data mining professors mentioning it before, but I can't recall the exact context. Also, thanks for passing along the link to the publication!